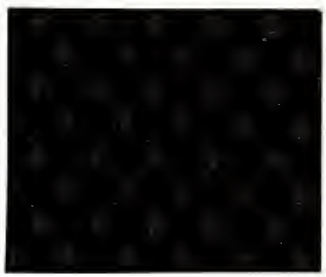
Celebrating 75 years of excellence in higher education . . .



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Mary Washington College provides disabled members of the college community an opportunity to participate in campus activities and programs. To fulfill this responsibility, the College will keep present and future students, faculty and staff informed of how to take advantage of accessible locations and be available to bring about resolution, if possible, wherever accessibility problems occur. For more information contact the Office of the Executive Vice President, Room 15, George Washington Hall, 899-4368.

The provisions of this Catalog are not to be regarded as an irrevocable contract between the student and the College. The College reserves the right to change any provisions or requirements at any time.

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Named for the mother of the father of our country...

The College – Its History

Mary Washington College will celebrate its 75th anniversary in 1983. These seventy-five years of academic excellence, coupled with the rich heritage of its namesake and its location, have made Mary Washington unique among the public institutions of the Commonwealth.

Its Namesake

Mary Washington College is named for the mother of George Washington. Unfortunately few factual details remain of her life, but we do know that after her marriage to Augustus Washington they lived for a time across the Rappahannock River from Fredericksburg. During this period Augustus died and Mary Washington assumed the responsibilities of rearing her family of five children, the oldest of whom, George, was eleven years old. All sources agree that it was her sense of duty and strong character that enabled her to succeed alone. Later in her life she returned to Fredericksburg where she died and is buried. Her monument, a small version of her son's, has the following inscription:

MARY
THE MOTHER OF
WASHINGTON

ERECTED BY HER
COUNTRYWOMEN.

Its Location

Many 18th and 19th century buildings remain in Fredericksburg, as well as many reminders of both the Revolutionary and Civil Wars. The College itself owns or administers buildings from various periods. A building which combines several periods of history is Brompton, home of the College President. Built in the 18th century on Marye's Heights, it was heavily involved in the Battle of Fredericksburg in 1862—bullet marks still remain in the walls—and served as a hospital during much of the campaign in Spotsylvania. President James Monroe had law offices in Fredericksburg, and these restored offices are administered by the College, as is Belmont, another 18th century house which later became the home of the distinguished artist Gari Melchers. Also preserved, but not administered by the College, are Mary Washington's final home, and Kenmore, the beautiful home of her daughter, Betty Lewis.

Its History

The College was chartered by the Virginia General Assembly on March 14, 1908 when Governor Claude A. Swanson signed the bill establishing a State Normal and Industrial School for Women at Fredericksburg. The College began its first academic session in 1911 with 110 students and one academic building, Monroe Hall. Since that beginning, the College has grown until it now occupies a 275-acre campus with more than 35 major buildings including Monroe Hall which has recently been renovated and is still used as an academic building.

An Emerging Identity

Much of the history of the College can be traced through its name changes.

The College operated under its original name - the State Normal and Industrial School for Women at Fredericksburg - until 1915 when it was renamed the State Normal School for Women at Fredericksburg.

Nine years later, in 1924, the College became The State Teachers College at Fredericksburg, signifying its attainment of full collegiate status. In 1938 it was renamed Mary Washington College, a change reflecting a broadening curriculum.

A major change in name and mission occurred in 1944 when the name was changed to Mary Washington College of the University of Virginia to reflect the College's new status as the women's liberal arts and sciences college of the University. The coordination of Mary Washington with the University of Virginia was the culmination of efforts by the women of Virginia to gain educational opportunities comparable to those available to men at Charlottesville. This fact and the shift in emphasis from teacher training (still today an important part of the academic program but no longer a major discipline) to liberal arts and sciences are re-

flected in phrases from various legislative statutes concerning this change, e.g.,

'. . . the elimination of technical courses designed for the training of teachers.';

'. . . the same standards of admission and graduation as obtained for male students in the college of arts and sciences of the University located at Charlottesville. . .'.

The final name change occurred in 1972 when the College became an independent state institution and resumed its 1938 name.

One factor in the successful evolution of the College through these changes has

been the fact that there have been only five presidents during its entire history:

Edward H. Russell
1908-1919
Algernon B. Chandler
1919-1928
Morgan L. Combs
1929-1955
Grellet C. Simpson
1956-1974
Prince B. Woodard
1974-

Coeducation

One major change not directly reflected in a name change was the 1970 decision to make Mary Washington a coeducational institution. Males had been admitted from time to time previously, e.g., to the summer sessions in 1929 and after World War II, but there had been no regular admission of male students. Since the College has become coeducational, the proportion of male students has grown to twenty-five percent.

An Evolving Program

The academic program of the College has changed as the needs of its students have changed. These changes reflect a commitment to provide the best possible education in any particular era. The academic program has evolved from the limited vocational and teacher training programs of the early 20th century, through a teacher training program with particular emphasis on business education, to the broad-based liberal arts and sciences program of today.

Mary Washington is primarily a teaching institution. Although many faculty members have published numerous books and articles, their primary responsibility is to their

students, in and out of the classroom.

The faculty has developed the curriculum of the College, both the overall degree program (most recently revised in 1981) and the disciplinary major programs, dropping, modifying, adding as needed. Recent new programs include Business Administration, Computer and Information Sciences, Environmental Earth Sciences, Historic Preservation (which draws on the abundant resources of the area), and Performing Arts, as well as Internships in many disciplines.

In 1980 the College began a limited graduate program, designed for the part-time student and intended to serve the population of the geographic area. When fully implemented it will have three degree programs - Master of Arts in Liberal Studies, Master of Business Administration and Master of Public Administration.

The Place of Honor

Perhaps no one thing has marked the historic development of Mary Washington College so much as its commitment to the concept of personal honor as the single most outstanding criterion necessary to govern both one's academic and personal life. At Mary Washington, honorable conduct is expected not only of students, but of faculty and staff as well. This means simply that members of the Mary Washington family are not to lie, cheat or steal nor are they to tolerate those who do.

What makes the development of the honor system at Mary Washington special to students is the fact that it is student run; student violations are reported to the Honor Council and it is the council which, while protecting the rights of the accused, ensures that the concept of honor at Mary Washington is in no way diminished by a tolerance for dishonor.

In its development, Mary Washington College has discharged with honor and success the many responsibilities which have been assigned to it through the years by the General Assembly and by its Board of Visitors. It is continuing to discharge those responsibilities today and, as part of its 75th anniversary celebration commencing during the 1982-83 academic year, will be laying the foundation so that it will continue to discharge its duties and obligations to successive generations of students and the community. If, indeed, the past is but a prologue, then the history of Mary Washington College demonstrates its qualifications for future success and achievement.

The Future

Colleges, like republics, must have a clear sense of purpose if they are to achieve the stability necessary for effective functioning and further development. In looking ahead, Mary Washington College will continue to keep the pursuit of academic excellence as the core of its value system.

The College has been, and will continue to be, sensitive to the educational needs of the citizens within its commuting region and will continue to assess its offerings for full-time and part-time students. Already, our master's program in liberal studies has been well received by adult, commuting students. We look with equal optimism toward the establishment of our master's in business administration (fall, 1982) and in public administration (fall, 1983) to respond to a need in our community and to accelerate the growth in enrollment of part-time students. In all of its program planning, the College will give the highest priority to providing quality programs in response to demonstrated need in the most economically feasible manner.

The College expects only a limited growth in the number of full-time undergraduate students; however, we expect a more diverse student body due to the broadening of our undergraduate curriculum.

The administration of Mary Washington College believes that the quality of the faculty has more to do with the quality of the College than any other single factor. For that reason, the College will continue to recognize the importance of hiring and retaining outstanding scholar-teachers to its faculty.

A commitment toward improving the quality of student life has been made by the administration, too, and will continue to be an important element in planning the College's future. Students will see greater variety of on-campus cultural, athletic and social activities as the College turns more attention to these broader aspects of campus life. Young men and women with a wide variety of career interests will enhance both the academic and non-academic aspects of college life.

With the completion of the outdoor athletic complex and the renovation of three buildings, the College's physical plant is in very good condition. Ongoing efforts to maintain the natural beauty of the campus will continue, and every effort to maintain facilities for both academics and student life will be expended.

Situated on Marye's Heights, amidst battle-scarred walls...

The Graduate Program

Mary Washington College currently offers two graduate degree programs, a Master of Arts in Liberal Studies and a Master of Business Administration. In the fall of 1983, the College will begin a Master's degree in Public Administration. The Masters programs are designed for part-time commuting students who wish to complete a degree while working and for students who wish to complete a degree for vocational or avocational interests. Non-degree seeking students are admitted on a space available basis. If they choose to apply for admission as degree candidates, they must do so before completing 6 hours as special students.

Master of Arts in Liberal Studies

The Master of Arts in Liberal Studies (MALS) Program is structured and yet flexible. It offers students the opportunity to design, with an adviser, a degree responsive to their needs and interests. The MALS is unique in encouraging students to study in a liberal, multidisciplinary manner. In the required course, *Ideas and Movements of the Western World,* and specially designed colloquia, students with different backgrounds under the leadership of professors from several disciplines investigate how trans-disciplinary approaches can lead to greater understanding of complex issues than any narrower approach can.

The program combines the enriching, challenging liberal approach with elective courses chosen to suit career objectives and special interests. In the latter half of the program, students complete a creative or investigative independent project with a graduate faculty member.

The MALS is particularly aimed at mature students who bring not just book learning but life experience to the classes. It is expected that most students will have family and work obligations, and therefore classes are generally held at night, on weekends and during the summer session.

Degree Specifics. The Master of Arts in Liberal Studies requires 30 graduate semester credit hours, distributed in four categories: initial courses, colloquia, electives, and directed study. All students take *Ideas and Movements of the Western World* I and II, 6 semester credit hours, a team-taught interdisciplinary course surveying major trends in thought, the arts, history and social theory from Greece and Rome to the present. Trans-disciplinary colloquia, taught by a graduate faculty team provide a choice for another 6 semester credit hours. Fifteen semester credit hours form the student's elective courses chosen from a variety of graduate courses in specific disciplines and areas. Three semester credit hours of directed study complete the program. Students must maintain a 3.0 average in the 30 semester hours used for completion of degree requirements.

Admission and Transfer Credit. Any student holding a Bachelor's degree from an accredited institution with a B average in the last two years of work may apply. A student with a lower average may apply for conditional status and, if accepted, may take the initial courses (MALS 511, 512). Such a student, receiving at least B in both of these courses, may apply for regular status and may use these six hours as part of the degree requirements.

All candidates for admission are interviewed by the Director of Graduate Studies.

Students with graduate course credit elsewhere may be permitted to apply 6 hours of such course work (grade of B or higher) to the elective portion of this program. Up to 6 additional hours may be applied to elective credit if such courses were taken in a similar program having parallel requirements. All transfer hours must be approved by the Director and the Graduate Council.

Course of Study

Initial courses are taught in fall-spring sequence. Other courses are offered on a rotating basis.

Initial Courses:

MALS 511, 512—Ideas and Movements of the Western World I, II (3, 3)
These initial courses provide a sustained inquiry into the evolution of Western thought. A broad view of the assumptions, ideas and movements that made Western civilization, the course will introduce students to forces that have shaped western values and traditions. The sessions are interdisciplinary and explore major human achievements in a chronological perspective.

Colloquia:

MALS 520—Aging in Modern America (3)
Prerequisite: MALS 511,512 or comparable interdisciplinary experience. An investigation of aging in America from the viewpoints of the scientist, the social scientist, and the humanist. The course will ask how old age can be defined, what we know and understand about the process of aging, and where the aged belong in the family and society.

MALS 521—Language Acquisition: Biological, Linguistic and Educational Perspectives (3)
Prerequisite: MALS 511, 512, or comparable interdisciplinary experience. A study of the relationship of three perspectives of language acquisition: biological, psycholinguistic and educational. Topics range from the innate mechanisms of language learning to theory of language production and reception and learning in structured situations.

MALS 522—On Becoming Human (3)
Prerequisite: MALS 511, 512, or comparable interdisciplinary experience. Designed to study becoming human as a process that is racial, social, and individual. Using the viewpoints of psychology, anthropology, and biology, students trace this fascinating process through cultural, scientific, and literary materials.

Electives:

MALS 550—Issues and Movements in Curriculum (3)
What are American schools teaching children and why? What influences have religion, government, business, minorities, and movements for student and teacher rights had on the curricula of American schools? These and other topics will be under discussion.

MALS 551—The Scope of Cervantes and His Works (3)
Reading and intensive study of the most important works of Cervantes, with special emphasis on *Don Quijote,* a world literary masterpiece which revolutionized the art of fiction and continues from its first appearance in 1605 as a best-seller. To explore the large and complex world created by Cervantes is the main object of the course, which is conducted in Spanish.

MALS 552—Philosophy, Philology and Literature (3)
This course explores ideals and values of Greek society as they are expressed in tragedy, epic, philosophy and history. The intention is to trace interrelations between the works themselves and also between values expressed in the works.

MALS 553—Historical Themes and Problems in Early Modern Europe (3)
This course examines major historical themes and historiographical controversies from the period 1559-1789 in European history. Topics: the debate on social class in Tudor and Stuart England, "The Becker Thesis," and continuity and change in The Enlightenment. The course involves lecture, seminar discussion, and written essays.

MALS 554—Leonardo: The Renaissance Man (3)
Focus on the remarkable scope of Leonardo da Vinci's intellectual and artistic achievement. Using slide-illustrated lectures, discussion, and readings, the course examines Leonardo's interests in botany, anatomy, physics, mechanics, optics, cartography, music, sculpture, painting, and architecture.

MALS 555—Literary Criticism and the Creative Imagination (3)
An exploration of the theory and practice of literature as a crafted creation through reading major critics and applying their views to literary works by Sophocles, Shakespeare, Keats, and others. Students learn how to develop their own theory and then apply it.

MALS 556—Contemporary Dynamics in World Politics (3)
An in-depth study of the volatile and evolving contemporary international systems, forces, and challenges generated by major participants in world politics, including the United States, Soviet Union, People's Republic of China, and Third World countries.

MALS 557—English Prose Style: History, Principles, Practice (3)
Designed to develop an appreciation for and greater competence in English "plain style." Course will investigate past practice, study current issues, and provide for individual writing.

MALS 558—Marine Ecology (4)
Prerequisite: Biology 121-122, 1 year college chemistry, Invertebrate Zoology, 1 course college ecology or equivalent. An introduction to biological, chemical and physical aspects of various marine ecosystems. Field collecting and trips. Summer only. Location: Christchurch School.

MALS 559—Symphonic Music (2)
Prerequisite: degree in music from an approved college. A stylistic and formal study of the symphony from its beginnings to the present through score analysis. Summer only. Concurrent with the Chatham Institute.

MALS 560—The Character of Physical Law (3)
Prerequisite: at least 1 college physical science course. A non-mathematical survey of important developments in physical science for the layman. Topics: origins and nature of science, classical physics, science and technology, relativistic revolution, quantum revolution, physical cosmology, birth and death of stars, the origin of life, epistemology.

MALS 561—Continuity and Change in Human Behavior During the Life Cycle (3)
Prerequisite: general college psychology or equivalent. An examination of behavior, cognition, and personality as they change during the life cycle. Topics: classical and current theory, current empirical research, study of unanswered questions.

MALS 563—Dante's *Divine Comedy* (3)
Prerequisite: MALS 511, 512. A study of the *Divine Comedy* (in translation) as a literary landmark and historical document, emphasizing medieval structure and innovative realism.

MALS 564—Comparative Theories of Mind: Influential Thinkers in Education (3)
A study of four major conceptions of mind in education: education as rational thinking, as mental development, as communication, as self-actualization. Focus on how these theories are translated into practice.

MALS 565—U.S. National Security: Policies and Processes (3)
An evaluation of domestic and international factors bearing on the design and implementation of U.S. national security policies. Topics: strategic doctrine, key policy makers and institutions, projected national security problems and prospects.

MALS 566—Contemporary Politics in the United States and the Soviet Union: A Comparison (3)
Comparative study of political life in U.S. and U.S.S.R. Topics: political socialization, response to problems of crime, drug abuse, environmental pollution, urban and energy crises.

MALS 590—Individual Project (3)
Prerequisite: 21 hours of MALS course work. Creative or Investigative Project proposed by student and directed by Graduate Faculty member.

Master of Business Administration

The Master of Business Administration (MBA) offers a program designed for the liberal arts graduate. Both the design and the content of the MBA degree are planned to open the doors of business to those with degrees in English, psychology, art, mathematics and the other liberal arts disciplines.

The MBA program does not require any prior preparation in business. Students are not required to satisfy prerequisites in undergraduate business courses before they can enter the program. This is a complete 48-hour package, allowing students to earn the degree from start to finish on the graduate level.

In content, the MBA courses, while shaped to teach the fundamental skills and theories of management, accounting, marketing, and finance, have been broadened to include the relationships between business and the world at large. Both the students and faculty bring to the MBA program contacts with the liberal arts traditions, relating the specific interests of the world of business to the wider world of social science, natural science, the humanities, and the arts. Moreover, six semester hours may be taken in fields of the student's choice from selected alternatives.

Planned particularly for the part-time student, this program enriches a solid, professional core with a perspective extending beyond the business world.

Degree Specifics. The Master of Business Administration is a 48 hour program consisting of two twenty-four semester hour levels. The first level of 24 hours may be waived on evidence of comparable preparation. Waiver of any first level course will be made primarily on the basis of previous comparable graduate level work or suitable undergraduate work completed in the same discipline. To be considered, a course must have been completed in the past 5 years with a minimum grade of B. Thus, a student might enter the program, waive the First Level (24 hours) and be required to take only the Second Level courses. Approval of a waiver by the Program Coordinator must be obtained prior to or during the first semester after admission.

Completion of the First Level courses with a grade point average of 3.0 or higher or approval of equivalence will automatically raise a student to candidacy status. Degree seeking candidates must complete all Second Level courses at Mary Washington College with a grade point average of 3.0 or better. Second level courses are:

MBAS 511	Accounting for Administrative Control	(3)
MBAS 512	Managerial Economics II	(3)
MBAS 513	Financial Policy	(3)
MBAS 514	Organizational Theory and Analysis	(3)
MBAS 515	Quantitative Techniques for Managers	(3)
MBAS 516	Business Policy Seminar	(3)
Electives:	Six semester hours with approval of adviser	(6)

Admission. A student holding a Bachelor's degree from an accredited institution and with a B average may apply. Students are selected for admission on the basis of their academic record, their score on the Graduate Management Admission Test (GMAT) and two letters of recommendation. The TOEFL test is required of applicants for whom English is a second language. Applications must be filed by February 15 for admission to Fall Semester. Transcripts and supporting documents are due by April 15. Applications received after these dates will be considered for later admission. Announcements of admission will be made by May 15.

Course of Study

First Level:

MBAS 501—Financial Accounting (3)
An intensive study of accounting principles, offered at the graduate level for those with no previous background in accounting. Covers the collection, reporting, and interpreting of the financial data of a modern business using a management-oriented approach.

MBAS 502—Managerial Economics I (3)
An intensive summary of basic micro and macroeconomic theories as applied to business.

MBAS 503—Administrative Theory (3)
A study of individual and small group behavior in organizations and the interpretation of this behavior in the context of the managerial environment. The examination of such concepts as influence, power and control, attitudes, communication, conflict and interpersonal relations to provide understanding of dynamics of group behavior. A strong conceptual and theoretical emphasis is involved.

MBAS 504—Marketing Management (3)
Considers the essential role of the marketing function in the modern business organization. Employs a series of business cases which raise issues of concern to the chief marketing executive. Major subject areas: organization, planning, marketing research, sales promotion, distribution channels, and control.

MBAS 505—Managerial Statistics (3)
Emphasis is on the application of classical and Bayesian statistical methods to business decision making. Topics include: non-parametric techniques, analysis of variance, decision theory, and multivariate regression and forecasting models.

MBAS 506—Corporate Finance (3)
A study of selected aspects of corporation finance. Subject areas include: funds statements, financial analysis and forecasting, debt and equity choices, government regulation, and capital budgeting.

MBAS 507—Management Information System (3)
Principles and procedures used in the development of information systems to facilitate the management functions of planning, integrating, measuring, and controlling.

MBAS 508—Law, Business, and Society (3)
Legal principles underlying the American judicial system; legal forms of business, contractual rights, and government regulations.

Second Level:

MBAS 511—Accounting for Administrative Control (3)
Prerequisite: MBAS 501—Financial Accounting or equivalent. Cost concepts and behavior, performance measurement, and analytical uses of accounting data for administrative decisions.

MBAS 512—Managerial Economics II (3)
Prerequisite: MBAS 502—Managerial Economics I or equivalent. Application of the tools of economic analysis to the problems of business enterprises. Case studies are included to develop the student's ability to apply theoretical concepts in decisions involving costs, prices, and resource allocations.

MBAS 513—Financial Policy (3)
Prerequisites: MBAS 501—Financial Accounting and MBAS 502—Managerial Economics I or equivalent. Case study approach to financial policy and strategy, solvency, profitability, external financing, dividend policy, acquisitions, mergers, and reorganizations.

MBAS 514—Organizational Theory and Analysis (3)
Prerequisite: MBAS 503—Administrative Theory or equivalent. Behavioral problems associated with innovation, resistance to change, and the development of complex organizations and administrative processes.

MBAS 515—Quantitative Techniques for Managers (3)
Prerequisite: MBAS 505—Managerial Statistics or equivalent. Mathematical-statistical techniques in management, replacement models, Markov chain, inventory and production models, simulation, queuing, linear programming, transportation, network analysis.

MBAS 516—Business Policy Seminar (3)
Prerequisite: Final semester or permission of instructor. Broadly integrative course designed to develop facility in analyzing business problems and to provide framework for making decisions, formulating policies, and implementing plans for action. Cases concerning administrative management, taken from actual business situations, present problems involving the integration of departmental policies into administrative decisions. Oral and written reports are required.

Electives: (6)
Intensive studies within each discipline of current trends and topics.

MBAS 571 Seminar: Accounting	(3)
MBAS 572 Seminar: Management	(3)
MBAS 573 Seminar: Marketing	(3)
MBAS 574 Seminar: Managerial Economics	(3)

Master of Public Administration

The Master of Public Administration (MPA) Program which begins in the fall of 1983 will provide graduate study for leadership and management in the public sector. The program is designed primarily for men and women already employed in the public sector, but recent college graduates who have not previously had substantial work experience will be admitted. The curriculum focuses on organization theory, administrative behavior, program evaluation and quantitative analysis, and public administration and policy making.

Degree Specifics. The Master of Public Administration is a 48 hour program consisting of two twenty-four semester hour levels. The first level of 24 hours may be waived on evidence of comparable preparation. Waiver of any first level course will be made primarily on the basis of previous comparable graduate level work or suitable undergraduate work completed in the same discipline. To be considered, a course must have been completed in the past 5 years with a minimum grade of B. Thus, a student might enter the program, waive the First Level (24 hours) and be required to take only the Second Level courses. Approval of a waiver by the Program Coordinator must be obtained prior to or during the first semester after admission.

Completion of the First Level courses with a grade point average of 3.0 or higher or approval of equivalence will automatically raise a student to candidacy status. Degree seeking candidates must complete all Second Level courses at Mary Washington College with a grade point average of 3.0 or better. Second level courses are:

MPAS 511	Accounting for Administrative Control	(3)
MPAS 512	Managerial Economics II	(3)
MPAS 530	Public Planning and Development	(3)
MPAS 531	The Legal Environment of Personnel Management	(3)
MPAS 533	Public Policy Seminar	(3)
Electives:	Six semester hours with approval of adviser	(6)

Admission. A student holding a Bachelor's degree from an accredited institution and with a B average may apply. Students are selected for admission on the basis of their academic record, their score on the Graduate Management Admission Test (GMAT) and two letters of recommendation. The TOEFL test is required of applicants for whom English is a second language. Applications must be filed by February 15 for admission to Fall Semester. Transcripts and supporting documents are due by April 15. Applications received after these dates will be considered for later admission. Announcements of admission will be made by May 15.

Course of Study

First Level:

MPAS 501—Financial Accounting (3)
An intensive study of accounting principles, offered at the graduate level for those with no previous background in accounting. Covers the collection, reporting, and interpreting of the financial data of a modern business using a management-oriented approach.

MPAS 502—Managerial Economics I (3)
An intensive summary of basic micro and macroeconomic theories as applied to business.

MPAS 503—Administrative Theory (3)
A study of individual and small group behavior in organizations and the interpretation of this behavior in the context of the managerial environment. The examination of such concepts as influence, power and control, attitudes, communication, conflict and interpersonal relations to provide understanding of dynamics of group behavior. A strong conceptual and theoretical emphasis is involved.

MPAS 505—Managerial Statistics (3)
Emphasis is on the application of classical and Bayesian statistical methods to business decision making. Topics include: non-parametric techniques, analysis of variance, decision theory, and multivariate regression and forecasting models.

MPAS 507—Management Information System (3)
Principles and procedures used in the development of information systems to facilitate the management functions of planning, integrating, measuring, and controlling.

MPAS 508—Law, Business, and Society (3)
Legal principles underlying the American judicial system; legal forms of business, contractual rights, and government regulations.

MPAS 509—Public Administration (3)
Special emphasis on the major concepts involved in public administration: theory of governmental administrative organization and operation, decision making, executive leadership, and the politics of administration.

MPAS 510—Public Finance (3)
Prerequisite: MPAS 501—Financial Accounting or equivalent. Financial principles as applied to taxation, borrowing, and expenditures of federal, state, and local governments; emphasis on financing in metropolitan areas.

Second Level:

MPAS 511—Accounting for Administrative Control (3)
Prerequisite: MPAS 501—Financial Accounting or equivalent. Cost concepts and behavior, performance measurement, and analytical uses of accounting data for administrative decisions.

MPAS 512—Managerial Economics II (3)
Prerequisite: MPAS 502—Managerial Economics I or equivalent. Application of the tools of economic analysis to the problems of business enterprises. Case studies are included to develop the student's ability to apply theoretical concepts in decisions involving costs, prices, and resource allocations.

MPAS 530—Public Planning and Development (3)
Prerequisite: MPAS 509—Public Administration or equivalent. The examination of the physical, economic, and social planning elements of public planning as related to the growth of our metropolitan society. The interrelationship of these three elements and their interdependence in public planning for long range policies and development, particularly as related to present problems of metropolitan development.

MPAS 531—The Legal Environment of Personnel Management (3)
Prerequisite: MPAS 508—Law, Business and Society or equivalent. The constitutional and procedural aspects of the employee/employer relationship.

MPAS 532—Budget Preparation and Analysis (3)
Prerequisite: MPAS 501—Financial Accounting or equivalent. Budget preparation in government and in public agencies; interaction of financial considerations and political dimensions in the budgetary process.

MPAS 533—Public Policy Seminar (3)
Prerequisite: Final semester or permission of instructor. Contemporary issues, practices, and problems facing public administrators; emphasis on government policy making and management techniques.

Electives: (6)
Intensive studies within each discipline of current trends and topics.

MPAS 571 Seminar: Public Planning	(3)
MPAS 572 Seminar: Public Finance	(3)
MPAS 573 Seminar: Service Delivery Systems	(3)
MPAS 574 Seminar: Policy and Implementation	(3)

Application procedures. Application forms are available from the Director of Graduate Studies, George Washington Hall, Mary Washington College, Fredericksburg, Virginia 22401.

Graduate Fees:

Application fee (one time, non-refundable)	$25
Credit hour fees:	
Virginia residents	$45 per credit hour
Non-Virginia residents	$80 per credit hour
Yearly registration fee (non-degree seeking students only)	$15
Graduation fee	$25

Responsible to the future, mindful of

the past...

The Undergraduate Program
Degrees and Awards

Mary Washington College awards four undergraduate degrees—Bachelor of Arts, Bachelor of Science, Bachelor of Science in Medical Technology and Bachelor of Liberal Studies. The requirements for each degree are outlined below.

BACHELOR OF ARTS, BACHELOR OF SCIENCE, BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

General Requirements

N.B. New Requirements for these degrees were adopted in 1981 and apply to all students entering for the 1982-83 academic year. These requirements are outlined below. The 1980-82 Catalog and the 1982 Dictionary of Academic Regulations outline the old requirements.

Requirements for these degrees are divided into three basic categories: general education courses, the major program, and elective courses. The general education requirements strive to acquaint the student with the various areas of study and modes of thought that are involved in the concept of liberal arts.

The major program allows a student to investigate one discipline (or several in an interdisciplinary major) to a greater depth. Although students are required to major in an academic discipline, they may also work toward a specific career or professional goal. Both major programs and career opportunities are outlined in the following sections.

General education requirements and the major program together account for from half to two-thirds of the four-year course of study. Though students decide individually how best to fulfill the remainder of their undergraduate curriculum, the College encourages a rich and diverse total program. Some options open to the student are individual study, student-designed special majors, pass/fail courses, internships, and double majors.

Making decisions is an integral part of the educational process at Mary Washington. While faculty members help students select courses and major fields of study, the final decisions are the student's own.

Students are responsible for assuring that they fulfill all degree requirements.

I. B.A./B.S. REGULAR PROGRAM

Degree Specifics. The specific degree is determined by the choice of major program. Both degrees require 122 semester hours, distributed among three categories: general education requirements, major program, and electives. A quality-point average of 2.00 on all Mary Washington College course work is also a degree requirement.

Residence Requirement. A student must earn at least 30 academic credits at Mary Washington College to be considered a degree candidate. These 30 credits must include at least one-half of the major program, unless the student is spending the junior year abroad in an approved language program.

Students must earn at least 15 of the last 21 credits of their degree programs on campus. This rule does not apply to students in the two cooperative programs, Medical Technology and Speech Pathology and Audiology, in which the fourth year is spent at a cooperating institution.

A. General Education Requirements

Students are required to complete all these general requirements unless exempted. Where appropriate, the courses which will satisfy a particular requirement are listed under the requirement. The contents of a course, rather than the department in which it is taught, determines its placement. The same course may be used to satisfy several requirements and/or be included in the major program.

1. Foreign Language

A student will be required to demonstrate proficiency equivalent to the completion of the intermediate level college course in a foreign language, modern or ancient. Students who present for entrance four units of a single language have satisfied the language requirement. A student may also request the language department to declare proficiency on the basis of an individual's record.

A student whose native language is other than English is exempt from this requirement upon successful completion of the Writing Workshop, or exemption therefrom.

2. Writing

Every student must take one course that is designated Writing Intensive as a freshman, sophomore, junior, and senior at Mary Washington College. Writing Workshop will normally be the freshman Writing Intensive course: students exempted from Writing Workshop by the English Department will take some other Writing Intensive course during their freshman year.

Writing Intensive courses will provide instruction in writing appropriate to the course: will demand a specific minimum of clear prose, whether in short essays, laboratory reports, long papers, etc., the writing will be assigned and returned with constructive comments throughout the semester.

Approved Courses:

Anthropology 101, 102

Biology 250, 322, 351, 352S, 361, 362

Business Administration 300, 490

Chemistry 319, 320, 385, 423

Classics, Philosophy and Religion 200

Drama 211, 212, 331, 332, 381

Economics 351, 352, 362

Education 321, 322, 323, 324, 332, 402

English 101, 201, 211, 212, 221, 222, 233, 234, 235, 236, 241, 242, 300, 301, 302, 303, 316, 319, 320, 325, 326, 333, 336

French 291, 292, 293, 391, 392
Geography 221, 222, 422, 480
German 291, 292, 391, 392
Italian 315, 316, 371, 372, 381, 382
Latin 212, 314
Music History 251, 472
Philosophy 321, 322, 371, 372, 373
Political Science 302, 356, 357, 360
Public Administration 311, 401
Psychology 380
Religion 231, 341
Spanish 291, 292, 315, 391, 392, 395

3. Laboratory Experience
Each student must take one course designated as fulfilling the laboratory requirement. Such a course will provide first hand participation in the scientific method. Time will be spent in discussion of the development of an observation, of the posing of a problem and of an hypothesis, and of the design of an experiment to test the hypothesis. Data collection will be followed with analysis and subsequent rejection or acceptance of the hypothesis.

Approved Courses:

Biology 121, 122, 351, 361, 362, 382, 383
Chemistry 105, 106, 111, 112
Geology 101
Physics 201, 202
Psychology 374, 380

4. Physical Education
A minimum of 2 credits of Physical Education or Dance, taken in different semesters, must be included and a maximum of 8 credits in Physical Education may be included in the 122 hours required for graduation.

5. Distribution Areas
These courses are especially designed to ensure that students become familiar with different aspects of the liberal arts experience.

Natural World—(6 credits)
Courses in the Natural World describe some part of our continuing physical environment. Most are in the traditional sciences, but a few are in other departments, where concentrated attention to the physical environment is especially important.

Approved Courses:

Biology	121	Biological Concepts I
	122	Biological Concepts II
	202	Heredity and Evolution
	252	General Ecology
Chemistry	105	Introduction to Chemistry I
	106	Introduction to Chemistry II
	111	General Chemistry I
	112	General Chemistry II
Geography	202	Introduction to Physical Geography
Geology	101	Introduction to Geology
	102	Oceanography
Physics	201	General Physics I
	202	General Physics II
	203	Elementary Astronomy I
	204	Elementary Astronomy II

Human World—(9 credits, divided between at least two disciplines)
Courses in the Human World pay attention to the physical and mental environments humans create for themselves. Though all live in the natural world, all live in society too; Human World courses are about these cultural environments.

Approved Courses:

Anthropology	101	Introduction to Social Anthropology
	102	Introduction to Physical Anthropology and Archeology
	201	North American Indians
CPR	200	Introduction to Women's Studies
Economics	101	Elements of Economics
	201	Macroeconomics
	202	Microeconomics
Geography	101	World Regional Geography
	221	Geography of Eastern Anglo-America
	222	Geography of Western Anglo-America
Linguistics	101	Introduction to Linguistics
	201	Issues in Sociolinguistics and Anthropological Linguistics
Psychology	101	General Psychology I
	102	General Psychology II
Religion	105	Introduction to Religion
Sociology	101	Principles of Sociology
	102	Social Problems

Abstract Thought—(3 credits)
Courses in Abstract Thought describe any one of several self-contained systems of analysis. The courses concern themselves with how one can establish the validity of statements and organize them into logical sequences. Such courses are found in disciplines ranging from music through mathematics and philosophy to business.

Approved Courses:

BUAD	231	Principles of Accounting I
	232	Principles of Accounting II
CPSC	211	COBOL
	221	FORTRAN
Math	111	Precalculus
	121	Calculus I
MUTH	181	Introduction to Music Theory
Philosophy	151	Logic and Language
Statistics	200	Introduction to Statistics

Intellectual Frameworks—(9 credits divided between at least two disciplines)

Courses in Intellectual Frameworks identify and explore patterns in time. They might look at how the cultural values of one era interact, or trace a common element through several eras. Courses in Intellectual Frameworks are found in most departments of the College.

Approved Courses:

Biology	250	Bioethics
Classics	205	Mythology
English	235	Tragedy
	236	Comedy
	242	Myth in Literature
	243	Women in Literature
Geography	201	Introduction to Cultural Geography
History	101	Early America
	102	Middle America
	103	Modern America
	111	Western Civilization: The Classical Era
	112	Western Civilization: The Medieval Era
	113	Western Civilization: The Early Modern Era
	114	Western Civilization: The Modern Era
Philosophy	111	Morals and Society
	244	History of Scientific Thought
PSCI	101	Introduction to Political Science I
	102	Introduction to Political Science II
Religion	117	Introduction to Christian Theology
	202	The Roman Catholic Tradition
Russian	215	Russian Culture
	295	19th Century Literature in Translation
	296	20th Century Literature in Translation

Modes of Creativity—(9 credits, divided between at least two disciplines; 3 credits must be in literature)

Courses in Modes of Creativity examine how human inventiveness takes form in the arts. Such courses are found in art, art history, the various literature departments, and music.

Approved Courses:

ARTS	101	Two Dimensional Design
	102	Three Dimensional Design
ARTH	114	Survey of Art History I
	115	Survey of Art History II
Classics	201	Classical Motifs in Literature
	202	Greek Tragedy
Drama	211	Survey of World Drama I
	212	Survey of World Drama II
	231	Stagecraft I
	232	Stagecraft II
	235	Movement for the Theater
Education	205	Children's Literature (Does not satisfy literature requirement)
English	211	Survey of English Literature I
	212	Survey of English Literature II
	221	Survey of American Literature I
	222	Survey of American Literature II
	231	Short Fiction
	232	The Novel
	233	Poetry
	234	Shakespeare
	241	Literature of Fantasy
MUHL	155	Introduction to Music
	251	Music in Concert
	267	Music and the Arts
Philosophy	212	Aesthetics
Religion	271	Studies in Faith and Literature

B. Major Program. A major program within a single discipline must require a minimum of 30 credits, and may require no more than 40 credits. A minimum of one-half of the major program must be taken at Mary Washington College, and a quality-point average of 2.00 on these courses is required. See the Academic Departments and Programs section for information on the various regular, interdisciplinary, cooperative, and special majors offered by the College.

No more than 9 credit hours may be counted in two major programs. Overlapping credit hours in excess of 9 will be deemed to constitute an interdisciplinary major program which must be approved by the Committee on Special Programs. Students majoring in Business Administration, Economics or Public Administration may not double major in either of the other two disciplines.

C. Electives. Additional courses must be taken to complete a total of 120 se-

mester hours credit, exclusive of the required one year (two credits) in physical education. No student may count more than 55 hours in a single discipline toward the 122 hours required for graduation.

II. B.A./B.S. ALTERNATE PROGRAM

Students with exceptional backgrounds and special interests may apply for the Alternate Degree Program, which allows greater concentration than the regular degree program. In an alternate degree program, up to one-half of the total program may be taken in a major subject; up to three-quarters of the total program may be taken in a single area, as defined under basic requirements, but at least one quarter of the total program must be taken in an area other than that which includes the major subject. Students interested in the alternate degree program should apply before the beginning of the junior year to the Committee on Special Programs.

III. B.S. IN MEDICAL TECHNOLOGY

Under the cooperative Program in Medical Technology, the student completes three years (92 credit hours) of undergraduate course work at Mary Washington College, followed by 12 months of clinical training at Fairfax Hospital, Roanoke Memorial Hospitals, or the University of Virginia Hospital. Admission to the final 12-month hospital training program is competitive. Students must meet the admission requirements of the hospital to which they apply and should make application during the third year at Mary Washington. Upon successful completion of clinical work, students are qualified to take the National Registry Examination given by the American Society of Clinical Pathologists.

Students must fulfill the Mary Washington College basic and competency requirements outlined above (I). Other specific requirements and listing of courses for the clinical year are described in a separate brochure available in the Advising Office.

If students enrolled in the medical technology program change their interest, they may continue with the regular degree program at Mary Washington.

IV. SECOND DEGREE

A student who has earned a bachelor's degree from MWC and wishes to pursue further work has the option of either completing an additional major and having this major noted on the transcript (with date of completion) or earning a second degree if it is different from the first, e.g., a B.A. if the first degree was B.S. or vice versa.

The conditions for the second degree are:

(A) The completion of at least 30 credit hours earned at MWC after the completion of the first degree;

(B) The completion of all major requirements in the new discipline as approved by the department chairperson and the Academic Dean.

Students who earned the first degree at another institution would have to complete the requirements for the second degree, as outlined above, and would also have to satisfy all other MWC requirements.

BACHELOR OF LIBERAL STUDIES

In addition to the Bachelor of Arts and Bachelor of Science degrees, the College offers the Bachelor of Liberal Studies degree for men and women 24 years of age and older who have a strong desire to consummate their learning in a baccalaureate degree. Learning acquired through life and work may be converted to college credit, and credit previously earned in other institutions may also apply toward this degree.

The candidate for the Bachelor of Liberal Studies degree works closely with a faculty mentor, and an individual program is designed which incorporates the student's past experience and present goals. These students proceed at their own pace toward completion of the program.

Degree Specifics. The Bachelor of Liberal Studies degree requires 120 semester credit hours, distributed in three categories: general education, electives, and core area. The student must demonstrate competence in English and earn at least 30 credits in graded classroom courses. At least 30 credits must be taken under the auspices of Mary Washington College after admission to the program. A quality-point average of 2.00 on all Mary Washington College course work is also required. Some students are required to complete BLST 0100, Orientation Seminar (one credit), an introduction to study skills. Others may wish to enroll in BLST 0101, Portfolio Development (one credit), for assistance in developing portfolios that document learning gained through life and work for the possible conversion to academic credit.

General Education. Courses totaling at least six credits are required in each of the following areas and no course may be scored in more than one category:

Humanities—art history, classics, drama, film and photography, literature, music, religion, philosophy

Social Science—economics, geography, history, political science, psychology, sociology

Natural Science and Mathematics—astronomy, biology, chemistry, geology, mathematics, physics

Communication Arts—computer language, creative writing, foreign language, performing arts, speech, studio art

Electives. A maximum of 56 credits may be taken in electives.

Competence in English Composition. Each student must demonstrate competence in English Composition. This may be accomplished by completing English 101, Writing Workshop, or by certification from the English Department.

Classroom Experience. At least 30 credits must be earned by direct classroom experience at Mary Washington or at another institution.

Residence Credit or Equivalent. Thirty semester hours must be completed after admission to the Bachelor of Liberal Studies Program at Mary Washington, or in a program supervised or approved by the College at another institution.

Core Area. Forty credits must be taken in a core area, which consists of a coherent group of subjects organized in such a way as to create a specialty or concentration. A regular liberal arts major offered by the College may be used, or an interdisciplinary selection may be made from the offerings of several departments. A quality-point average of 2.00 on courses counted in this area is required for the degree and at least 20 of these credits must be in upper level courses.

SERVICEMEN'S OPPORTUNITIES PROGRAM

Mary Washington College is a member of the Servicemen's Opportunity College (SOC) network, a group of more than 300 colleges and universities committed to making post-secondary education more readily available to mobile military personnel through cooperation on admission, transfer of credits, and residency requirements. The SOC program makes it easier for service personnel to transfer college credits between MWC and other participating institutions, and to earn their degrees at the College. (Mary Washington's degree requirements specify that the student must complete 122 credit hours of college work, yet only 30 of those hours must be taken as "resident credit"—in courses taught by MWC faculty members, mostly in the student's major field.) More specific information about the SOC program may be obtained from the Office of the Vice President for Continuing Education.

SENIOR CITIZENS

Provided space in classes is available, legal residents of Virginia 60 years of age or older may take courses at reduced or waivered fees according to the stipulations detailed on page 42.

Senior citizens should request information about application procedures from the Vice President for Continuing Education.

RECOGNITION OF STUDENT ACHIEVEMENT

Academic Distinction. General academic attainment of graduating seniors will be recognized through the awards of Cum Laude, Magna Cum Laude, and Summa Cum Laude, based solely on the student's academic average at Mary Washington College. The level of attainment for each award is as follows: Cum Laude, 3.25; Magna Cum Laude, 3.50; Summa Cum Laude, 3.75. A student may receive both departmental honors and one of the Latin academic distinction designations.

To be graduated Cum Laude, Magna Cum Laude, or Summa Cum Laude, a student must have earned at least 60 hours on which quality points may be computed.

Phi Beta Kappa. Outstanding students may be elected to Phi Beta Kappa in the junior or senior year. Selection is made by the members of the Mary Washington Chapter of Phi Beta Kappa.

Departmental Honors. Students may earn honors in their major subjects. Each department establishes its own requirements for honors projects or theses. During their junior year, interested students should consult the chairperson of the major department for details. All departments require that a student intending to undertake an honors project have a specified minimum grade-point average in the major subject and a minimum grade-point average for all work taken at Mary Washington College.

The deadline for notifying the Office of Student Records of recipients of Departmental Honors is the last day of classes in the spring semester. Notification should cite departmental action certifying the award. This action should also be recorded in the departmental minutes. If a paper, research project, or a piece of creative writing is the direct result of the honors project, the student must deposit a copy of this written work in the library by the last day of examinations in the spring semester.

Final Honors. Final Honors are awarded at Commencement to students who achieve a 3.75 grade-point average in their last 56 credits earned, at least 44 of which must be MWC graded credits.

Colgate W. Darden, Jr. Award. This award was established in 1960 to honor Colgate W. Darden, Jr., President of the University of Virginia from 1947 to 1959. It consists of a medal designed by Gaetano Cecere, formerly of the Department of Art, and a cash sum. It is awarded to the senior having the highest academic average.

To be eligible for the Darden Award, a student must have earned at least 94 hours on which quality points may be computed.

Mary Washington College Alumni Award. This award is presented annually by the Alumni Association at the Senior Convocation to that member of the graduating class who has shown distinction in academic achievement and outstanding service to the College.

The Dean's List. A student carrying at least 12 hours of new work on which quality points may be computed at the close of a grading period who attains a grade-point average of 3.50 or better on all work taken for graded credit for any semester is placed on the Dean's List of Honor Students. Decisions on the Dean's List are based on a student's record as it stands at the official close of the semester grading period. Thus, incompletes always prevent consideration for the Dean's List.

Intermediate Honors. Intermediate Honors are awarded to students who achieve a 3.75 grade-point average in their first 56 credits earned, at least 44 of which must be MWC graded credits.

Biology Scholarship. By the gift of an anonymous donor scholarships are available for students majoring in biology. Information about this scholarship program may be obtained from the Biology Department Chairman, Combs Science Hall.

Lt. General Albert J. Bowley Scholarship Fund. This scholarship was established by Mrs. Elsie Ball Bowley in memory of her husband, Lt. General Albert J. Bowley, a distinguished officer of the United States Army. The recipient is to devote to the James Monroe Memorial Library as much time and service as the authorities of Mary Washington College prescribe. Consideration is first given to juniors and seniors who are daughters of service personnel, and then to students from foreign countries (preferably Latin Americans), or to upper-classmen whose major interests and work lie in the fields of history or political science. Inquiries should be addressed to the Dean of the College.

The Chandler Scholarship. Algernon B. Chandler, President of Mary Washington from 1919 to 1928, bequeathed a sum to the College. The proceeds are used toward the education of a junior or senior selected on the basis of scholarship and need.

Chi Beta Phi Scholarships. This national honorary scientific fraternity awards annual scholarships to outstanding students majoring in science or mathematics. Preference is given to members of Chi Beta Phi.

Ann Elizabeth Collins Memorial Art Award. Established in memory of Ann Elizabeth Collins '73, by friends, relatives, and faculty, this award is given annually to the student who has the greatest potential for pen and ink drawings and graphics. The recipient is selected by members of the Department of Art, and the award is presented at the Student Art Show or another appropriate recognition event.

Richard S. Cross Grants for Undergraduate Research. Established by the late Richard S. Cross, a member of the College's first Board of Visitors, and supported by the generosity of his family, these grants are available to support student research projects which have been approved for academic credit by the departments and by the appropriate College committee. Further information may be obtained from the Office of the Dean.

Ann Elizabeth Fitschen Memorial Political Science Award. Established by gifts from family, friends, and classmates of Ann Elizabeth Fitschen '75, a cash award is made annually to the senior majoring in Political Science with the best academic average, as determined by the faculty of the Department of Economics, Business and Public Affairs. An additional sum is presented annually to the Department, on behalf of the recipient, to be spent at the discretion of the Chairman.

Barbara Diane Hall Foundation. Established by Mrs. Dorothy N. Bonnet in memory of her granddaughter, the scholarship is to be awarded annually to a fine arts major attending MWC.

Anne and Sidney Hamer Music Award. This annual award is presented each spring semester to the Bachelor of Arts music major who has earned the highest overall grade-point average during his/her three and one-half or more years of study at MWC.

Jeannine Mary Pfeifle Scholarship. In memory of Jeannine Mary Pfeifle, class of 1979, this $500 scholarship is awarded each year by a College selection committee to a rising senior who is a U.S. citizen. Specifically and in descending order of priority, the recipient shall be a daughter of a U. S. Marine serviceman, daughter of a U. S. Navy serviceman, the son of a U. S. Marine serviceman or the son of a U. S. Navy serviceman.

Minnie Rob Phaup Memorial Scholarship. Established in memory of Minnie Rob Phaup, former member of the Mary Washington College faculty, this scholarship may be awarded to an outstanding junior or senior in psychology or for graduate study in psychology.

Annie Fleming Smith Scholarship Fund. This scholarship was established by Mrs. Elsie Ball Bowley in memory of

Mrs. Annie Fleming Smith whose efforts made possible the preservation of Kenmore, the home of George Washington's sister. The recipient must devote to the Kenmore Association as much time and service as the authorities of Mary Washington prescribe. In awarding this scholarship, primary consideration is given to students from the Virginia Northern Neck, consisting of King George, Westmoreland, Richmond, Lancaster and Northumberland counties. Inquiries should be addressed to the Dean of the College.

Aurelia B. Walford Scholarships in Music. Established by the will of the late Aurelia B. Walford, these scholarships are awarded annually to music majors on the basis of academic merit and performance skills.

J. Binford Walford Scholarships in Architecture. Established by the will of the late Aurelia B. Walford, these scholarships are awarded annually to majors in art history, historic preservation or history who have stated career goals in architecture-related endeavors.

Recognition of Faculty Achievement

Grellet C. Simpson Award. This award, made possible by an anonymous donor, is presented each year at graduation to a faculty member in recognition of excellence in undergraduate teaching.

Previous recipients of this award are:

1972 Carmen L. Rivera
Professor of Modern Foreign Languages

1973 Sidney H. Mitchell
Professor of English

1974 Anna S. Hoye
Professor of Biology

1975 Earl G. Insley
Professor of Chemistry

1976 Donald E. Glover
Professor of English

1977 Glen R. Thomas
Professor of American Studies

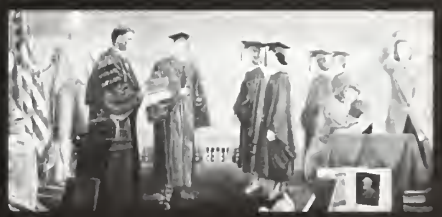
1978 Nancy H. Mitchell
Professor of English

1979 Elizabeth A. Clark
Professor of Religion

1980 Janet G. Zeleznock
Associate Professor of Mathematical Sciences

1981 Arthur L. Tracy
Associate Professor of History

Dedicated leadership through five administrations . . .



Departments and Programs

Mary Washington College, through its fifteen academic departments, offers a variety of academic majors and other programs. There are 26 disciplinary majors, five interdisciplinary and two cooperative majors. Some departments also offer special programs within the major, e.g., astronomy within the physics major, cartography within the geography major and communications within the English program.

Other special programs are on a college-wide basis, such as, Special Majors, Internships, Study Abroad, Health Sciences, Pre-Law, Pre-Medical and Teacher Certification.

Academic Departments and their Programs

N.B. An asterisk indicates that a major is offered in that program.

Department of Anthropology, Geography and Sociology

Associate Professor Williamson, Chairperson (Career Adviser for Anthropology); Professors Bowen, Emory, Sletten (Career Adviser for Sociology); Associate Professors Gouger (Career Adviser for Geography), Palmieri; Assistant Professors Crippen, Hanson, Olson.

Anthropology—p.49
*Geography (B.A.)—p.64
*Sociology (B.A.)—p.81

Department of Art

Associate Professor Meyer, Chairperson; Professors Lamph, Muick, Oliver; Associate Professor DiBella (Career Adviser for Studio Art); Assistant Professors Dreiss (Career Adviser for Art History), Pendleton; Visiting Lecturer Nickel.

*Art History (B.A.)—p.50
*Studio Art(B.A.)—p.51

Department of Biological Sciences

Associate Professor Fuller, Chairperson; Professors Friedman, R. M. Johnson (Career Adviser for Biology), T. L. Johnson, Parrish, M. W. Pinschmidt, W. C. Pinschmidt, Jr.; Associate Professor Bass (Career Adviser for Environmental Earth Sciences), Assistant Professor Southworth (Career Adviser for Medical Technology); Adjunct Professor Cornman.

*Biology (B.S.)—p.52
*Environmental Earth Sciences (Interdisciplinary) (B.S.)—p.63
*Medical Technology (Cooperative Program) (B.S. in Med. Tech.)—p.71

Department of Chemistry and Geology

Professor Mahoney, Chairperson (Career Adviser for Chemistry); Professors Cover, Crissman, Wishner; Associate Professors George, Gratz; Assistant Professor McConnell (Career Adviser for Geology).

*Chemistry (B.S.)—p.54
*Geology (B.S.)—p.65

Department of Classics, Philosophy, and Religion

Associate Professor J. Wishner, Chairperson; Professors Burns, Van Sant (Career Adviser for Philosophy); Associate Professors Cain (Career Adviser for Religion), Hatch (Career Adviser for Classics); Assistant Professor Elftmann; Instructors Baley, Winn.

*Classics: Classical Civilization Concentration (B.A.)—p.55
*Classics: Latin Concentration (B.A.)—p.55
Classics, Philosophy, and Religion—p.56
Greek—p.67
Latin—p.70
*Philosophy (B.A.)—p.74
*Religion (B.A.)—p.79

Department of Dramatic Arts and Dance

Associate Professor Haydar, Chairperson; Professor Kenvin (Career Adviser for Dramatic Arts and Performing Arts); Assistant Professors Graham, Hunt, Joyce; Instructor Ginsburg (Career Adviser for Dance).

*Dance (B.A.)—p.57
*Dramatic Arts (B.A.)—p.57
*Performing Arts (Interdisciplinary) (B.A.)—p.74

Department of Economics, Business and Public Affairs

Associate Professor Czarsty, Chairperson; Professors L.P.Fickett, Krickus (Career Adviser for Political Science); Associate Professors Fingerhut, Kramer (Career Adviser for International Affairs), Lindeman (Career Adviser for Public Administration); Assistant Professors Ahmed, Apostolides, Brodzinski, Mehrabi, Rycroft (Career Adviser for Economics), Worley (Career Adviser for Business); Instructors Greenlaw, Stageberg, Whitman; Lecturers Jenkins, Ledbetter, Tucker, Tuttle.

*Business Administration (B.S.)—p.53
*Economics (B.A.)—p.58
*International Affairs (Interdisciplinary) (B.A.)—p.69
*Political Science (B.A.)—p.76
*Public Administration (B.S.)—p.79

Department of Education

Professor Slayton, Chairperson (Career Adviser); Professors Merchent, Warlick; Associate Professors Vogel, Zisman; Assistant Professor Bonn; Instructors Gill, J. Johnson.

Education—p.59
Teacher Certification—p.60

Department of English, Linguistics, and Speech

Associate Professor Kemp, Chairperson; Professors Brown, Dervin, Fleming, Glover, Hanna, N.H. Mitchell, S.H. Mitchell (Career Adviser for English), Singh; Associate Professors Duke (Career Adviser for Speech), Hansen, Lutterbie; Assistant Professors Collins (Career Adviser for Linguistics), Manning.

*English: Literature Concentration (B.A.)—p.61
*English: Writing Concentration (B.A.)—p.61
Linguistics—p.70
Speech—p.83
*Speech Pathology and Audiology (Cooperative Program) (B.A.)—p.83

Department of Health and Physical Education

Associate Professor Hegmann, Chairperson; Associate Professors Clement, Droste, Greenberg; Assistant Professors Davies, Gallahan, Gordon, Kintzing; Instructor Wagenaar.
Health—p.67
Physical Education—p.75

Department of History and American Studies

Professor Crawley, Chairperson; Professors Bourdon, Thomas (Career Adviser for American Studies), Vance, Zimdars; Associate Professors Campbell, Ryang, Tracy, Warner (Career Adviser for History); Assistant Professors Blakemore, Hensley (Career Adviser for Historic Preservation).
*American Studies (Interdisciplinary) (B.A.)—p.49
*Historic Preservation (Interdisciplinary) (B.A.)—p.67
*History (B.A.)—p.67

Department of Mathematical Sciences and Physics

Professor Lindsey, Chairperson (Career Adviser for Mathematics); Professors Atalay (Career Adviser for Physics), Nikolic; Associate Professors Ackermann (Career Adviser for Computer Science), Harris, Holmes, Pierce, Zeleznock; Assistant Professors Collier, Nelson, Sheckels; Instructor Story; Lecturer Reynolds.
*Computer and Information Science (B.S.)—p.56
*Mathematics (B.S.)—P.70
*Physics (B.S.)—p.75
Statistics—p.83

Department of Modern Foreign Languages

Professor Hofmann, Chairperson; Professors Ascari, Blessing (Career Adviser for French), Bozicevic, Hoge; Associate Professors Herman, Manolis, Merrill (Career Adviser for German), Peña; Assistant Professors Elliott, Niebuhr, Quann (Career Adviser for Spanish).
French (B.A.)—p.63
German (B.A.)—p.66
Italian—p.69
Literatures in Translation—p.72
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Spanish (B.A.)—p.82

Department of Music

Professor Baker, Chairperson; Professor Lemoine; Assistant Professors Burton, Long, Norwood (Career Adviser); Instructors Chalifoux-Goddin, M. Fickett, Haas, Randall, Reinburg, White.
*Music (B.A.)—p.72

Department of Psychology

Professor MacEwen, Chairperson; Professors Kelly, Rabson (Career Adviser), Smith (Internship Adviser), Weinstock; Associate Professors Bill, Moeller, Nissim-Sabat; Assistant Professors Hampton, Pope.
*Psychology (B.A.)—p. 77
*Psychology (B.S.)—p.77

Special Programs

Special Majors

The student and the faculty adviser work out an individual program by utilizing courses from two or more departments which define a field of concentration. This major must be approved by the Committee on Special Programs during the final semester of the student's sophomore year. Examples of Special Majors include general liberal arts and science programs in Medieval Studies, Linguistics, Classical and General Archaeology, Ethnology, Italian Studies, Asian Studies, Latin-American Studies, Russian Studies and Urban Affairs.

Academic Internships

The College offers a program of academic internships in which qualified juniors and seniors work in off-campus positions. Cooperating academic departments supervise the interns and award academic credit for the learning experience.

The College's location near the nation's capital provides unique opportunities for placement in the governmental and political arenas. Recently students have performed special projects for the Northeast/Midwest Congressional Coalition, the Women's League for Peace and Freedom, and syndicated political columnists Evans and Novak. The City of Fredericksburg offers fine opportunities for students particularly interested in studio art, in history and historic preservation, and in local government. In other fields, students are working in various positions throughout the region, one as an interpretive naturalist at Prince William National Forest Park, another as a laboratory assistant at the Institute of Human Performance. One student interested in print journalism has been writing feature articles for the "Potomac News", another more interested in the broadcast industry has been interning as a story researcher for the "PM Magazine" TV show. Several students are working as cartographers with the U.S. Geological Survey. Others are learning about accounting, marketing, banking, or personnel in a variety of private commercial businesses.

A survey of recent graduates indicated that 55% of them felt their internship had been an important factor in securing their first position.

Study Abroad

The procedure for earning credits at colleges and universities abroad is basically the same as earning credits at other institutions in the United States, except that more advance planning is necessary.

With the help of departmental faculty and the Advising Office, interested students should investigate the wide range of available programs. Most students spend the year abroad with a program sponsored by an American institution, although a few apply directly to the foreign school. All courses must be approved in advance for transfer credit. Courses to be counted in the major pro-

gram must also be approved by the student's major adviser who helps the student structure a program in relation to the major at Mary Washington.

Health Sciences

The Health Sciences constitute a variety of paramedical professions that encompass the general field of health care. The basic liberal arts and science courses offered at Mary Washington provide the initial preparation for entrance to nursing, physical therapy, dental hygiene, pharmacy, medical technology, and veterinary science professional schools.

During their freshman year at Mary Washington students must give careful attention to the admission requirements of professional schools. A career adviser is available to help students select courses which meet these admission requirements and prepare them for the professional qualification examinations in their field. Admission to professional institutions is, of course, very competitive and depends on academic performance, personal interview, and scores on the qualifying examination.

Students interested in medical technology earn a Bachelor of Science in Medical Technology degree by taking their first three years at the College and the fourth year at a cooperating institution. Individual programs of study at the College are determined by the students and the program adviser with regard for the prerequisites named by the cooperating institution. (See Medical Technology.)

The major program in speech pathology and audiology is offered in cooperation with the University of Virginia. Students complete their first three years at the College and spend their fourth year in residence at the University of Virginia, earning a Bachelor of Arts degree from Mary Washington College. Full details on this program are available from the Speech Career Adviser. (See Speech Pathology and Audiology.)

Pre-Medical

Students interested in a career in medicine or dentistry may concentrate their studies in any major field. In general, medical and dental schools are primarily interested in students who have made a dedicated commitment to a major field and have demonstrated a superior performance within it as well as in their general academic program.

The Pre-Medical Advisory Committee at the College assists pre-medical students by collecting biographical data and faculty recommendations, by counseling for the Medical College Admissions Test (MCAT), arranging an interview with the committee, and finally in the senior year prepares an integral, institutional recommendation that is sent to the medical school. Since admission to medical school is highly competitive, it is advantageous for pre-medical students to have a second major interest to fall back on in case their admission to medical school is unsuccessful. For example, there are excellent postgraduate opportunities for biology and chemistry majors to pursue careers in medically oriented fields such as biochemistry, clinical chemistry, medical technology, pharmacology, medicinal chemistry, and forensic science to mention a few.

Pre-Law

This program provides guidelines for students interested in entering law school. There is no standard pre-law curriculum at the College. The Program Adviser assists students in selecting courses which meet their individual needs and provide the foundation for acquiring skills necessary to the legal profession. The career pattern includes courses in written and oral communication, and courses which help develop the reasoning process.

Teacher Certification

Both the Virginia State Department of Education and the National Association of State Directors of Teacher Education and Certification have approved the teaching education programs at Mary Washington College. Students who complete an approved program qualify for certification in all the states with which Virginia has a reciprocity agreement. See also departmental offerings, Department of Education.

A viable curriculum served by faculty of the highest quality...

Policies and Procedures

At Mary Washington College standards have been set to provide for a smoothly run academic program. Rules and regulations guarantee that all students are treated fairly in both their academic and non-academic lives. The Student Handbook, issued by the Dean of Students, describes non-academic policies.

For academic procedures, students and faculty consult this Catalog and the Dictionary of Academic Regulations, a detailed reference to all academic regulations. Both the Catalog and the Dictionary are for the convenience and information of the student. Neither should be interpreted as an irrevocable contract. Academic policies and procedures and degree requirements are listed according to standards in effect at the time of printing and are subject to change at the discretion of the College. All changes are announced by mail or in the weekly Bulletin. If a change is announced which affects the student's program, it is the student's responsibility to adjust that program accordingly or to obtain written confirmation from the Dean for any variation. (The Dean welcomes questions and requests concerning the interpretation and applicability of academic policies and procedures.)

Since the final responsibility for meeting all degree requirements rests with the students, they should have complete knowledge of the regulations pertaining to the academic program of the College. The Dictionary will be distributed to each entering student and will be updated annually.

Honor System

Since 1944, the students of Mary Washington College have lived under the Honor System. Although its constitution is occasionally revised, the Honor Code has remained basically the same throughout the years. The Honor Council retains sole control of its operations and is responsible to the student body, which derives its authority to establish the Honor System from the Board of Visitors. Because of the nature of the Honor System, final responsibility lies with the Board of Visitors, but all enforcement is in the hands of students.

The Honor System provides that a student shall act honorably in all relationships of campus life. Lying, cheating, stealing or breaking one's word of honor are considered infringements of the system, and the penalty for violation, as determined by the Honor Council, may be dismissal from the College. The pledge required on quizzes, examinations, and other classwork means that the work the student submits to a professor is the student's own and has been completed in accordance with the requirements for the course as laid down by the professor.

All students must understand that by accepting admission to Mary Washington, they make a commitment to the provisions of the Honor Code. Upon entering the College for the first time, every student is given a copy of the complete Honor Code and is expected to become familiar with its provisions. (See the Student Handbook for a copy of the Honor Constitution.) Student counselors interpret the Honor System to all new students before they are asked to sign a pledge card stating that they understand what is expected and realize that a plea of ignorance will not be accepted by the Honor Council. Registration as a student is not considered complete until this card has been signed.

Calendar

Mary Washington College uses a calendar of two semesters and one summer session. The fall semester begins in late August and ends in December; the spring semester begins in January and ends in May. Since it is an integral part of the school calendar, the summer session permits the completion of a full semester's work, by having one three-week and two four-week sessions.

Course Load

If a student intends to graduate in eight semesters, normal progress toward a degree is as follows: a minimum of 28 credit hours completed for the first two semesters and 15 to 18 credit hours completed during each of the remaining six semesters, for a total of 122 hours.

Under this definition of normal progress, students are classified as follows: freshmen, fewer than 28 credits; sophomores, 28 to 57 credits; juniors, 58 to 89 credits; seniors, 90 credits or more.

Students wishing to accelerate and graduate in fewer than eight semesters, will consistently take 17 or 18 credits each semester and attend summer sessions. In this way, a student can graduate in three calendar years. No student may carry more than 18 hours (17 for first semester freshmen, 16 for students on probation) without special permission.

Residential students carrying fewer than 12 credits must have permission from the Dean of Students to live in a residence hall. Students on financial aid should consult the Dean of Admissions and Financial Aid if they wish to carry fewer than 12 credits.

Attendance

Mary Washington College is an academic community which functions to increase the knowledge of its members to the processes of the natural and social environments in which they live. For the greatest benefit to the community as a whole, and for the benefit of its individual members, certain responsibilities must be accepted by professors, students, and administrators.

One primary responsibility of students is attendance at academic sessions regardless of whether they be one, three, or four credit seminar, performance, laboratory, or lecture courses. Learning is an experience which requires active participation, whether it be reinforcing a physical skill, discussing

ideas, or understanding a complex theoretical problem. An important part of this experience is the sharing of ideas and knowledge among participants. This is best accomplished by attending all sessions of a course.

While the decision to attend a particular class is the responsibility of the student, the College has the right and responsibility to set conditions for those students who are absent too often.

All students are responsible and accountable for all tests, assignments, material covered, and announcements made in class whether they are present or not.

The following College policy is required in all 100- and 200-level courses:

1) When a student's absences become excessive (where excessive is defined as six class hours) the student will be notified that continued absences will result in forced withdrawal from the course when the total reaches nine class hours (nine class meetings in a 50-minute class, six in a 75-minute class, and three in a 150-minute class).

2) Withdrawal will be on a passing or failing basis according to the regulations for all withdrawals from courses.

In all courses not on the 100-200 level, attendance policy is set by the instructor. No policy can be stricter than that for 100-200 level courses, and all policies must be announced to the students, in writing, at the beginning of each course.

It is the student's responsibility to keep track of his/her attendance record. Students who miss classes because they add a course during the add period should be aware that any classes missed during the "add period" count as absences.

A student who has been in the infirmary and has missed classes should tell the instructor, who may call the Health Center to learn whether the College physician has advice on how to work with the student. Students under the care of a doctor should request a memo of confirmation from the doctor to present to their instructors. A student unavoidably absent for a week or more, due to hospitalization, serious illness, or a sudden emergency, should notify the Advising Office as soon as possible. If appropriate, the Advising Office will inform instructors of the student's circumstances; but this in no way relieves the student of responsibility for course work.

Students faced with unavoidable extended absences should consult not only with their instructors but also with the Advising Office to discuss the advisability of withdrawing for the semester.

Grading

Academic performance in any course is rated according to the following system which is printed on all grade reports:

A	unusual excellence
B	work distinctly above average
C	work of average or medium quality
D	the lowest passing mark, work of below average quality
F	failure, no credit in the course
PA	pass, in a pass/fail course
FA	failure, in a pass/fail course, no credit in the course
SA	satisfactory, in a physical education course
UN	unsatisfactory, in a physical education course, no credit in the course
G	grade delayed
I	incomplete, illness or emergency in final portion of a semester has prevented the student from finishing the course
CR	test out (credit-by-examination)
CI	test incomplete (credit-by-examination)
WP	withdraw passing
WF	withdraw failing

Quality-Point Average. Each grade, A through D, carries a stated number of quality points, which are multiplied by the number of credit hours to compute the total quality points for the course. A carries four; B carries three; C carries two, and D carries one. Thus, a three-hour course with a grade of A provides 12 quality points; similarly, if a course carries four hours of credit and the grade is A, it provides 16 quality points.

The quality-point average is computed by dividing the total under hours attempted (on the grade report) into the total under Quality Points. Note that the hours attempted column does not include credit-by-examination, transfer credits, or physical education hours.

Mid-Semester Progress Reports. In the middle of each semester, students will be notified of their standing in every course: S = satisfactory; U = unsatisfactory; N = no progress determination possible at this time.

These notifications are not entered on a student's permanent record, and they are not sent to parents or guardians (a copy is sent to the Office of Academic Advising, and to the Major Adviser if the student has declared a major). Any "U" should be taken very seriously by the student as a warning that improvement is needed. The student is urged to consult instructors and advisers for assistance.

The quality of work that will be used to determine a mid-semester report of "S" or "U" will be spelled out in the course syllabus which is to be distributed during the first week of class.

Repeating Courses. A course can be repeated only once. No more than two courses can be repeated in a single semester, and no more than seven courses may be repeated while the student is enrolled at the College.

Pass/Fail Option. With the approval of an academic adviser (for freshmen and sophomores) or a department adviser (for juniors and seniors), a student may

take one course each semester or during a complete summer session on a pass/fail basis for a maximum of eight pass/fail courses during the entire degree program. A grade of PA (pass) does not affect the quality-point average, but a grade of FA (failure) in a pass/fail course counts the same as an F in a graded course and will lower the quality-point average. These courses can be used for elective credit only for students entering the College for the academic year 1982-83 and after. A student may take a pass/fail and a physical education course in the same semester. The decision to take a course pass/fail must be made within the first two weeks of the semester. If the decision is not made at the time of registration, the Advising Office must change a course from graded to pass/fail or from pass/fail to graded. Before electing to use the pass/fail option, a student should consider its effect on the opportunity to earn academic awards and distinctions, for these are calculated on the basis of a specified minimum number of graded credit hours.

Credit-By-Examination. An enrolled student may request from a department a special examination on any course for which an examination is appropriate. If the student passes the examination, the course and a grade of "CR" will be recorded on the transcript for hour credit, but not for quality-point credit. If the student fails the examination, a grade of "CI" (Test Incomplete) is recorded. During the next regular semester this grade must be removed by taking and passing the course; otherwise, the Test Incomplete will be converted to an "F." The course may be taken on a graded or pass/fail basis. If taken on a graded basis, the course may count toward the major program or be used to satisfy Basic Requirements. A fee is charged for this examination. Credit-by-Examination is not available for such courses as seminars, individual study, studio, and laboratory courses.

Transfer Credit

Students may apply for approval to take courses at another institution. Such requests may be for individual courses or for a semester or year (usually for study abroad). In the latter case, if the program is approved, the student will be granted a study leave for that period. Otherwise the student remains an enrolled student. In either case, transfer credits will not be accepted unless the courses or programs are approved in advance by the Office of Academic Services. If the course is approved and the student earns a grade of C or better, the credits are recorded on the student's permanent record at Mary Washington. Transcripts of courses approved for transfer credit should be sent directly to the Office of Student Records.

Courses taken at other institutions while a student is on suspension are not accepted for transfer credit.

The course load limit applies to all courses taken in the same semester including those taken at other institutions. If a student takes courses at Mary Washington and another institution in the same semester and the total is more than the allowed course load, the credits from the other institution are not accepted for transfer credit unless there is specific permission, in advance, from the Academic Dean.

Grades earned in transfer work do not affect the student's quality point average at Mary Washington College. Credit is given for the hours only.

Continuing at the College

Regularly enrolled Mary Washington students are asked to indicate each year their intention to return for the fall session. A form is mailed early in the second semester and must be returned by a specified deadline with a $10 processing fee and a $100 room deposit for dormitory students, or a $50 fee deposit for commuting students. The form and room deposit must be returned by the deadline if residential space is to be guaranteed.

Students whose completed forms and deposits are received after the deadline may be placed on a waiting list for residential accommodations.

The $10 processing fee is nonrefundable; the $100 deposit or $50 fee deposit is applied to the student's account for the following session. It is not normally refundable after a specified deadline unless the student is ineligible to continue, or unless the Vice President for Business and Finance and Vice President for Admissions and Financial Aid agree that unusual circumstances justify a refund.

Although the College makes every effort to furnish forms for returning students directly to enrolled students, it is the responsibility of the individual student to file the form. These forms and instructions are available from the Office of Admissions and Financial Aid.

Withdrawal from the College

A student who wishes to withdraw from the College during the semester must notify the Office of the Academic Dean in person and, if a minor, must have written consent of parent or guardian. The College requests that the student also meet with an academic adviser in the Advising Office. At that time, the student may request to be placed on leave of absence. At the time of withdrawal the Academic Dean will determine whether the student, upon applying for readmission, is to have his/her application reviewed by the Readmission Board.

Academic Probation and Suspension

The purpose of probation and suspension is to warn students that they are not doing satisfactory work, to stimulate them to improve their performance, or, finally, to serve notice that the institution does not choose to allow them to continue because there is little or no likelihood of their finishing successfully.

The academic progress of a full-time student will be evaluated at the end of

the Fall and Spring semesters, and at the end of the summer if he/she has taken twelve units graded during the summer. The progress of a part-time student will be evaluated whenever his/her total number of units graded is increased by twelve units.

For both full-time and part-time students, evaluation of academic standing is based on the total number of units graded and the cumulative grade point average.

Probation. A student is placed on probation whenever the student's cumulative grade point average is below 2.0. A student on probation may continue at the College provided he/she continues to make acceptable progress toward a 2.0 GPA. A student who does not make satisfactory progress in any semester after being placed on probation will be suspended for at least one calendar year. A student suspended for a second time will be ineligible to return to Mary Washington College.

In calculating probation/suspension for transfer students, the number of credits graded will include all accepted transfer units as well as MWC units, but the grade point average will be calculated on MWC courses only. No transfer student will be suspended after only one semester (or the equivalent) at the College.

As appropriate, "Academic Probation" is stamped on the student's grade report and becomes a part of the student's permanent record. Students placed on academic probation are required to consult their faculty adviser and the Advising Office no later than the first week of the ensuing semester. At that time, the student may be advised to modify his/her course schedule and will be given advice regarding study skills and study time allocation.

Suspension. Students who do not make satisfactory progress while on probation will be suspended. (Unsatisfactory grade point average after 15 credits is defined as follows: 16-30 credits, less than 1.65 GPA; 31-45 credits, less than 1.80 GPA; 46-60 credits, less than 1.95 GPA; over 60 credits, less than 2.0 for a second semester.) Exceptional cases will be referred to the Readmission Board for determination. A suspended student may not register for classes until his/her term of suspension expires. Suspension is to last at least a calendar year, unless other decisions are made by the Readmission Board. After the suspension, continuance at Mary Washington College is possible, but it is contingent upon the Readmission Board's approval of a readmission contract which must be drawn up and signed before the suspended student is readmitted. The student's readmission contract should include a self-evaluation, a declaration of goals, and specific academic plans. Upon being readmitted the student will have up to one calendar year to raise his/her GPA above the probation level.

The Readmission Board is composed of faculty and administrators appointed by the Academic Dean. The Board hears appeals concerning the length of a suspension and modifies the terms when this is deemed appropriate. The Board also has the authority to approve or disapprove readmission contracts.

Exceptional cases, which go beyond the scope of this regulation, will be handled on a case-by-case basis by the Academic Dean.

Readmission

After Study Leave, Leave of Absence or Withdrawal. At the time a student requests study leave, a leave of absence, or withdraws during a semester, the student will be told whether or not readmission will be automatic. If automatic, the student applies for readmission directly to the Office of Admissions.

Although every effort is made to send forms for continuance to students who so request, the student must assume final responsibility for securing, completing, and returning the forms. Except in unusual circumstances, students who have taken a planned leave of absence may expect to resume studies without difficulty. They should apply as soon as possible, especially if they wish residential accommodations.

If readmission was not designated automatic at the time the student left Mary Washington, the student must apply to the Readmission Board which will review the application. If the student has attended another institution, the work there as well as that at Mary Washington will be taken into consideration. To give the Board time for review, returning students in this category must apply for readmission no later than two weeks before the opening of the semester.

After Suspension. Students suspended from the College for other than academic reasons should apply for continuance to the Vice President for Admissions and Financial Aid.

Students suspended for academic reasons are not eligible for readmission before the end of one calendar year after suspension and may be readmitted only by action of the Readmission Board. Such application must be made at least two weeks before the opening of the semester and should be addressed to the Academic Dean.

Diversity among the student body,

supported by a belief in high standards...

Services and Activities

Academic

The College provides a number of facilities and services to assist students with their academic study and planning. These include the library facilities, academic advising, career planning and job placement, the audio-visual center and the academic computing facilities.

The Library

The E. Lee Trinkle Library, named after the man who served as Governor of Virginia from 1922 to 1926, contains one of the finest collections for undergraduates in the Commonwealth. The resources include more than 270,000 cataloged volumes, 1,200 current magazine and newspaper subscriptions, and additional microform collections, including the *New York Times* from its beginning date of 1851 to the present time and the Fredericksburg *Free Lance-Star* from 1926. As a United States Federal Government depository since 1940, the library receives approximately 6,000 documents annually. Since 1981 the Library has been a depository for Virginia documents.

The Daniel H. Woodward Rare Book Room houses a collection of more than 2,500 unique, rare, or very valuable works. Among the holdings is an incunabulum, a 1496 printing of Pliny's *Naturalis Historia.* A special collection of first and scarce editions of James Joyce's writings and another of the works of Claude Bernard, the 19th century physiologist, are numbered among the items in the Woodward Collection.

The building, one of the most beautiful on campus, was erected in 1941. An addition, constructed in 1963, provided extra stack and seating space. Although the beauty of the original structure has been preserved, the floors have been carpeted and new lighting installed. A variety of seating is provided, including individual study carrels. A typing room furnished with electric typewriters is provided for students at no charge. Copying service is available in the building at a nominal cost. The Library is open 91 hours each week during the regular session. During those hours it offers a variety of services based on the educational concept which holds that a library is the natural extension of the classroom. Instead of a passive, custodial role, the Library staff pursues an active, teaching role in the intellectual development of the student. Beyond the traditional reference services that are offered by professional librarians 76 hours weekly, a variety of library instructional programs designed to aid students in acquiring competence in the effective use of the library are regularly scheduled. Individualized instruction including term paper clinics and discipline-oriented research seminars is offered each semester. Course-related instruction arranged through the professor and a one-credit course in "Library Resources and Their Use" are two additional forms of library instruction which attempt to make the library more meaningful for the student. Freshmen library orientation consists of a slide/tape presentation on the Library and a library skills unit taught by the reference librarians as a part of Writing Workshop, English 101. A wide selection of subject and discipline-related bibliographies and research aids, a regularly revised library handbook, and a quarterly library newsletter entitled *News and Views from Trinkle* are among the library publications provided to aid students in making more effective use of the resources at Trinkle Library.

The Trinkle Library is a member of the Southeastern Library Network (SOLINET), a cooperative bibliographic utility which provides access to an online, machine-readable data base for use in cataloging and processing the materials acquired by the Library and for transacting interlibrary loan requests.

A friends of the library group known as The Associates of Trinkle Library was formed in 1977. The organization is concerned with promoting the enjoyment of books and libraries and offers programs designed to enrich the cultural and intellectual life of the campus and its members.

Academic Advising

The Academic Advising Office is staffed by professional counselors and faculty members who are available throughout the year to advise students concerning their current academic program, to assist them in planning the next semester's or year's program, and to suggest sources of information on post-college opportunities. All students who have not declared majors are officially advised through this office. Students are also encouraged to consult with faculty advisers in the areas of their academic interests.

Career Planning and Placement

While the primary goal of Mary Washington College is to provide a sound liberal arts education for its students, the College is aware of the need for most students to secure a remunerative position upon leaving college. To help them find the position or graduate school best suited to their talents and needs, the College provides career planning workshops throughout the year for all students and special resume writing and interview skills workshops for seniors. The Assistant Dean for Academic and Career Advising conducts most of these workshops. Her office periodically publishes a newsletter with news of internships and other career planning suggestions. The Placement Office compiles, at the student's request, a personnel file, which can be sent to prospective employers. This service is also available to alumni. The Placement Office also schedules interviews with prospective employers on campus and maintains a file of job openings.

The Audio-Visual Center

The Audio-Visual Center, located in Chandler Hall, offers audio and video taping facilities, photography, slide production, loan and repair of A-V equipment, and graphic production. The center's staff oversees the operation of the Dodd Auditorium stage facilities.

Faculty and qualified students may borrow tape recorders, record players, sound systems, microphones, cameras,

movie projectors, slide projectors and video equipment from the A-V Center. Equipment and film rental catalogs are also available in the center. The staff offers technical assistance between the hours of 8 a.m. and 5 p.m. Monday through Friday.

Academic Computing Facilities

The main academic computer is a PRIME 500-II with 1.5 megabytes of main memory and a 300 megabyte disk drive. Students and faculty can access this system by using any of approximately 30 interactive terminals in various locations on campus. Also available are several microcomputers, a plotter, and several printers. The sole function of the academic computing facilities is to provide support to students and faculty who wish to use a computer in their classes or for research.

Non-Academic

The College has a large range of activities and services concerned with the non-academic aspects of college life. These are under the direction of the Dean of Students and are covered in detail in the Student Handbook, published by her office. A few examples are included here.

Sports

Mary Washington has both men's and women's intercollegiate teams. There are men's intercollegiate teams in basketball, cross country, golf, riding, swimming, soccer, tennis, and track and field. The program grows as the number of men on campus increases. Women have intercollegiate teams in basketball, cross country, golf, field hockey, lacrosse, riding, swimming, tennis, track and field, and volleyball. State championships were won by the cross country, basketball and volleyball teams in '79-'80 and '80-'81 while the field hockey team was 9th in the nation for 1980 and the women's tennis team ranked 13th in the nation out of 360 teams in 1981.

A modern physical education building provides a basketball gymnasium, dance studios, an intercollegiate swimming pool with one and three meter boards, an auxiliary gymnasium, a weight training room, a handball-racketball court, three competitive volleyball courts and a multi-purpose activities room. Outdoor facilities include fields for flag-football, hockey, lacrosse, softball and soccer, a cross country course, a new 10-court lighted tennis complex, golf driving and putting area and a new 8-lane, Rubaturf all weather, 400 meter track.

The Recreation Association sponsors intramurals in flag-football, soccer, racketball, volleyball, basektball and water polo. The Association also sponsors trips, classes, clinics and clubs in these and other sports.

Clubs

Most academic departments have interest clubs or honoraries; there are also clubs for students interested in physical therapy, medical studies, and international relations. There are Afro-Americans, Young Democrats, Young Republicans, and off-campus branches of student religious organizations. Students produce three regular publications—a weekly newspaper, a yearbook, and a literary magazine.

Residence Halls

Eighteen residence halls on campus offer students a wide choice in life styles. Small language and honor houses, academic/quiet student houses, single sex, and co-educational halls are available to students. Each hall is staffed with a full time residence director/coordinator, and specially selected upperclass students trained to assist students in college life.

Health Center

The College Health Center offers students diagnostic referral services as well as special care in its 31-bed facility. A full-time physician, 24-hour staffing by registered nurses, and consulting services from area specialists help to give Mary Washington College students a comprehensive health resource.

Counseling Center

The Counseling Center also looks toward the health needs of students by offering personal counseling services, and, when needed, making referrals to community resources. The Center also provides students with both academic and vocational testing administration.

United by an atmosphere of freedom and trust...

Admission

Mary Washington College takes a personal approach to admissions. Each admissions application is discussed and weighed along with other information provided. Supporting information about each candidate is helpful in the selection process. The admissions office is open for visits and is willing to answer questions and provide information about any aspect of college life.

Mary Washington College does not discriminate in recruiting, admitting, or enrolling students on the basis of race, color, religion, physical disability, national origin, political affiliation, marital status, sex, or age. Questions may be directed to the AAEEO Officer, Mary Washington College.

For the purposes of initial admission and continuance there are two ways in which students may be classified: regular and special.

Admission as a Regular Student

To be admitted as a regular student, an individual must submit a full application with all supportive transcripts from secondary school and all collegiate institutions attended. This application, along with information furnished by the secondary school and results of The College Board Scholastic Aptitude Test, is reviewed by the appropriate Committee on Admissions, and upon its decision, the applicant is either admitted or not admitted as a degree-seeking student at Mary Washington College.

A regular student may be full-time or part-time. This is determined at the time the student registers for classes and depends upon the number of hours carried for credit. Generally, a regular student must register for 12 or more credit hours to qualify for full-time status. A regular student may, however, be given permission by the Vice President for Academic Affairs and Dean and the Dean of Students to maintain full-time student status and register for fewer than 12 credit hours for reasons of health, academic performance, service in the student leadership role of President of the Honor Council or President of the Student Association, or for other special circumstances. Students receiving this permission shall pay the tuition and fees of a regular student with full-time student status. During the semester, a regular full-time student may drop without permission below a course load of 12 credit hours and become a part-time student; in such cases there will be no remission of fees. A student may not live in college housing while carrying fewer than 12 credit hours without permission from the Dean of Students. Students receiving financial assistance must consult with the Vice President for Admissions and Financial Aid concerning the consequences of dropping below a course load of 12 credit hours.

A person who has been admitted as a regular student remains a regular student until graduation from Mary Washington College. That person cannot become a special student after having been admitted as a regular student.

Admission as a Special Student

Special students are most often interested not in a degree from Mary Washington College but in specific courses. They are students who are high school or college graduates or students at other institutions who wish to earn credits to transfer to their own institutions.

Special students complete an abbreviated application form, and the Vice President for Continuing Education makes the decision on the admission of these students. Admission as a special student is an open-door policy as long as the student's prior record appears to be clear. A student denied regular admission to the College will not be considered for admission as a special student until one year after the denial. Admission as a special student is not admission to a degree program of the College.

The special student will be notified of the specific date, time and place of registration. Although the application may be submitted at any time up to the first day of class, it is more convenient if the application is submitted well in advance of registration.

Special students typically register for eleven or fewer credits for a semester and pay by the credit hour attempted. Classes open to special students are ones with space available and for which prerequisites are met. A special student can seek permission of the Vice President for Continuing Education to be a full-time special student. Certain criteria must be met if such permission is to be granted. Full-time special students are college graduates who are seeking certification in education or a similar field, college students who are taking a full program of study which they have been given permission to transfer to their parent institution to complete a degree program, or students who are taking a full program to qualify for graduate or professional school admission.

Admission Directly after High School

A student who intends to enter Mary Washington directly after high school graduation should request application materials from the Vice President for Admissions and Financial Aid early in the first semester of the senior year. Students requesting a decision under the Early Decision Plan should also request the Early Decision Agreement form.
soon as convenient. The transcript form must be completed by the appropriate high school official and returned. If the scores earned on the Scholastic Aptitude and Achievement Tests have not already been sent to the College, the applicant should request The College Board to send them directly to Mary Washington.

The suggested deadline for submitting an application is March 1. All applicants

who meet this deadline will be notified of the Committee's decision by April 1. All acceptances are conditional upon second semester performance.

A student who applies after the suggested March 1 deadline follows the same procedure. Applications will be considered on a space available basis. The Committee will announce its decision as soon as possible after materials have been received.

Application Fee. All students send a $15 non-refundable application fee with the initial application.

Early Decision Plan. The student who has selected Mary Washington College as a first choice may wish to apply for admission under the Early Decision Plan. Under this plan the student agrees to accept an offer of admission, if it is extended by the Committee on Admissions. The College in return agrees to announce its decision by December 1.

Interested candidates should request an Early Decision form, along with regular application materials, early in the fall semester of the senior year. The candidate may apply to other colleges but must agree to withdraw those applications if notified of acceptance by Mary Washington.

The application form, the Early Decision form, the transcript, and results of the Scholastic Aptitude Test should be submitted to the College before November 1. The Committee on Admissions will review the materials and notify the applicant by December 1.

Should the Committee not act favorably on an early decision request, the applicant's file will remain active, and the Committee will reconsider it after the candidate submits additional grades and/or scores at the end of the fall semester.

High School Preparation. The general academic requirements for admission are graduation from an accredited secondary school or the equivalent and credit for at least sixteen academic units. The units presented must include a major emphasis in areas of college preparatory work. Careful attention is given in the admissions process to the quantity and quality of the college preparatory curriculum.

Although no requirements for admission are absolute, experience has shown that successful students at the College have completed, as a minimum, the following suggested program of study: four years of English, three years of mathematics (including algebra II), one or more years of laboratory science and of social studies, and at least two years of foreign language. Elective units earned in art, music, drama, journalism, etc., will also be considered.

Examinations. Students entering directly from high school are required to take the Scholastic Aptitude Test of The College Board and to request that the results be sent to the College. The SAT should be taken no later than the January test date in the senior year. If the test is taken after that date, consideration of the application must depend on space available when the score is received.

It is strongly recommended, but not required, that applicants submit achievement test scores. Students wishing to be considered for exemption from the College competence requirement in English composition must take the English Composition Achievement Test. Achievement test scores in foreign language may be submitted for placement.

Information about the tests may be obtained from The College Board Admissions Testing Program, Princeton, New Jersey 08541, or from secondary school counselors. When making application for the tests, the student should specify that the results be sent to Mary Washington College (College Code Number 5398).

Character, Personality and Interests. In addition to the scholastic record, recommendations from appropriate school officials are welcomed. Such recommendations should include an assessment of academic potential, as well as character, personality, and interests. Activities that reflect leadership or intellectual interests are impressive only if they reinforce sound academic achievement. Since Mary Washington operates under a successful honor system, assurance of personal integrity is indispensable.

Committee Review. The Committee on Admissions approves applicants only if they seem prepared to succeed in a competitive, liberal arts curriculum. The Committee considers academic achievement, class rank, secondary school recommendations, aptitude, and achievement test results, as well as a pattern of courses demonstrating interest and competence in the liberal arts and sciences.

The Committee feels that the senior year is extremely important, and that such basic academic subjects as English, mathematics, laboratory sciences, and foreign language should be continued through the final term.

Admissions Deposit. Students accepted by the College send an answer and a deposit—residence hall students submit a $100 deposit, and commuting students submit a $50 deposit. Students applying by March 1, who are notified by April 1, are required to answer and to send the deposit by May 1. If the application is late, and the letter of acceptance is received after May 1, the deposit is due within two weeks. The deposit is applied to the first semester charges. Unless the student has asked for Early Decision, the deposit is refundable upon request until May 1. If the student is accepted for the spring semester, the deposit is refundable upon request until December 15.

Medical Examinations. All entering students who intend to reside on campus must present a certificate from a physician stating that they have had a recent physical examination. A form for the doctor's use is provided and must be completed after April 1 and returned not later than July 15.

Deferred Enrollment. Upon request, an accepted student may have one year to exercise the option of enrolling. Delayed enrollment is subject to admission requirements in force at the time the initial decision is made. If students enroll at another institution before enrolling at Mary Washington, they must apply again as transfer students.

Students will be subject to rules, regulations, and financial charges in effect when they actually enroll.

Advanced Placement. Students entering from high school may apply for college credit through the examination given by the Advanced Placement Program of The College Board. These examinations are offered in May in various academic areas. For further information students should consult their high school guidance counselors. Interested students should have the results of the Advanced Placement examination forwarded to the College.

Challenge Examination. These may be taken by an entering student to support a petition for academic credit for mastery of subject matter covered by elected courses offered by Mary Washington College. Challenge examinations may not be taken in studio and laboratory courses, seminars, individual study courses, and many upper-level courses. Credits earned in this manner may not count toward the major program, but may be used to satisfy Basic Requirements. A fee is charged for taking a challenge examination.

Transfers from Other Colleges

The Admissions Committee makes its decision on transfer students on the basis of the application, a high school transcript, transcripts of all college work, and the Scholastic Aptitude Test.

Candidates may be considered for transfer admission if they are entitled to honorable dismissal without academic or social probation in the last institution attended.

Transfer Credit. As a rule, transfer credit is given for courses of the same type (liberal arts courses) and under the same guidelines as courses offered at Mary Washington. Courses for which transfer credit is requested must not overlap those which the student takes at the College, and a minimum grade of C must have been earned. New transfer students should have transcripts from other institutions sent directly to the Office of Admissions. They should also provide a catalog for use in evaluating their credits. This office will complete an estimate of transfer credits to be allowed. After admission procedures have been completed, a final evaluation will be issued by the Office of the Dean.

Residence Requirement for Transfer Credit. To be eligible for a Mary Washington degree, a student must earn 30 semester hours of credits from the College and must complete at least 15 of the last 21 credits on campus. Full information on transfer credit is given under "Academic Regulations and Policies." A preliminary evaluation of transfer credit may be made by the Vice President for Admissions and Financial Aid, but all final decisions are made by the Office of the Dean. Transfer credit is made a part of the permanent record when the student has completed one semester's work at Mary Washington College.

Procedure. The Vice President for Admissions and Financial Aid will send a prospective transfer student an application and a secondary school transcript form. The student must complete and return the application and arrange for the high school transcript form to be completed and sent by the appropriate secondary school official. The student must also arrange for transcripts to be sent from all colleges attended.

A transfer applicant is urged to submit all materials early in the first semester of the year prior to transfer. The Committee on Admissions will make a preliminary evaluation of this information and a final decision upon receipt of the first semester or quarter grades.

Examination. A candidate must submit the results of the Scholastic Aptitude Test, normally included on the high school transcript. A candidate who cannot meet these testing requirements should consult with the Vice President for Admissions and Financial Aid for advice about appropriate substitutions.

Committee Review. The Committee considers many factors in judging whether the transfer candidate can succeed at Mary Washington College, but puts particular emphasis on the program and academic achievements in the last college attended.

Fees and Deposits. These are the same as for students entering directly from high school.

Medical Examination. All entering transfer students who intend to reside on campus must also present a certificate from a physician stating that they have had a recent physical examination. A form for the doctor's use is provided and must be completed after April 1 and returned not later than July 15.

Admission before High School Graduation

Selected students with exceptional ability can enroll at Mary Washington College before they have graduated from high school under one of three plans.

Admission to the Summer Session. A high school senior whose level of intellectual and personal maturity and academic promise is of the highest caliber is eligible to apply to the summer session. A principal or guidance counselor must recommend the student.

After consulting the principal or guidance counselor, the student submits a summer session application. If accepted, the student takes the same courses and course load as any freshman student. Credit and grades earned

are added to the student's permanent record at Mary Washington.

Admission to the summer session, for any student, does not constitute admission to the regular session. A student who wishes to earn a Mary Washington degree applies, using the regular procedure, during the first semester of the senior year.

Admission to Part-Time Study during the Regular Session. Qualified seniors in an area high school who wish to supplement their academic loads in the senior year may apply for admission as part-time students.

The candidate submits the special student application, a high school transcript, and a letter of recommendation for this program from the principal or director of guidance.

Admission after the Junior Year. This program, in which the student enters as a full-time freshman after the junior year in high school, is designed for a small number of exceptionally qualified students who have completed almost all of the 16 credits required for admission.

To be considered, a candidate must have all required credits in mathematics, science, and foreign language. Most commonly, the student has at the end of the junior year only one unit in English and one in social science to complete.

The admission procedure is the same as for a regular candidate, except that the student usually applies in the spring. The student presents Scholastic Aptitude Tests results with the applications, and may submit Achievement Test results before enrolling.

Such a student needs all the material required of a regular candidate; in addition, the high school counselor will be asked to speak directly to the question of the student's maturity. The Admissions Committee examines the application using the same criteria as for a senior, with the addition of the statement of maturity.

A Virginia student can arrange with the secondary school principal to be graduated from high school at the end of the freshman year at Mary Washington by using College courses to fulfill a maximum of two high school credits.

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Fees and Assistance

Semester Fees and Expenses

The fees outlined in this section have been approved by the Board of Visitors and are effective for the 1982-83 fiscal year. Any changes from this schedule of fees will be announced immediately.

Questions about fees and payment procedures should be directed to the Office of Student Accounts, Room 111, George Washington Hall, telephone (703) 899-4631.

Questions about financial assistance and general college expenses should be forwarded to the Office of Admissions and Financial Aid, Room 303, George Washington Hall, telephone (703) 899-4684.

Full-time Residential Students. The fee schedule below is for a student carrying 12-18 semester credit hours. A student carrying more than 18 semester credit hours must pay a tuition overload fee for each additional credit hour (see next page).

1982-83 Fees	Year Total	Per Semester
Virginia Students		
Tuition	$ 828	$ 414
Comprehensive Fee*	220	110
Residential Fee	1,320	660
Board	1,016	508
Total Virginia Students	$3,384	$1,692
Non-Virginia Students		
Tuition	$1,960	$ 980
Comprehensive Fee*	220	110
Residential Fee	1,320	660
Board	1,016	508
Total Non-Virginia Students	$4,516	$2,258

The residential fee includes infirmary services; however, any prescribed medication is charged to the student's account.

The board charge includes three meals a day, seven days a week, throughout the academic session. **All** residential students must participate in the board plan; no partial plans are available.

Full-time Non-Residential Students. 1982-83 Fees

	Year Total	Per Semester
Virginia Students		
Tuition	$ 828	$ 414
Comprehensive Fee*	220	110
Total Virginia Students	$1,048	$ 524
Non-Virginia Students		
Tuition	$1,960	$ 980
Comprehensive Fee*	220	110
Total Non-Virginia Students	$2,180	$1,090

*Comprehensive Fee. The Comprehensive Fee is used to support student organizations, athletic programs, and a variety of other programs and services. Most student activities and events are provided without additional charges to the student.

Part-time Students. Part-time students register for fewer than 12 semester credit hours. Virginia students are charged $30 per credit hour and non-Virginia students, $68 per credit hour. In addition, each part-time student is required to pay a $5 per credit hour Comprehensive Fee.

Also, a non-refundable $15 special student registration fee which permits enrollment in fall and spring semesters is required.

Students participating in the off-campus teacher training program who are part-time are charged on the basis of the number of credits for which the student is enrolled at Mary Washington. A non-refundable fee of $100 is charged at the time a student-teaching application is submitted and will be credited to the account if the student enrolls in the course.

Part-time students are not ordinarily eligible for infirmary or dining hall services. A part-time student may participate in either of these services by paying the appropriate fee at registration. Use of these services will depend on their availability at the time of the request.

Other Required Fees

Application Fee—Degree Seeking Applicants. A non-refundable fee of $15.00 must accompany the application for admission from a first-time undergraduate, degree seeking applicant. This fee is applied to the cost of processing the application for admission. It is entirely separate from other fees, is not refundable, and cannot be deducted from other charges.

Contingent Fee. All residential students must pay a $100 Contingent Fee upon initial enrollment to the College. This fee is in addition to the fees outlined above and is included in the bill for the first semester, and is due with the first payment. The Contingent Fee will be applied against any outstanding balance upon graduation or withdrawal from the College. Any remaining portion of the Contingent Fee will be refunded at that time.

Declaration to Continue Processing Fee. A nonrefundable fee of $10 must be paid by all undergraduate degree-seeking students (except BLS students) returning to or continuing in the College.

Other Fees

Late Payment Fee. A fee of $75 will be charged to those students whose accounts are not paid in full by the published deadline date for payment of fees.

Tuition Overload Fee. A full-time student registered for more than 18 semester credit hours is required to pay an additional fee. For Virginia students the charge is $30 per credit hour for each credit hour exceeding 18 and $68 per credit hour for non-Virginia students.

Returned Check Fee. There is a service charge of $7.50 for each check returned for insufficient funds or similar reasons. A cashier's check is then required in place of the returned check.

Audit Fee. Part-time students may audit a course for no credit on a space available basis for a fee of $15 per credit hour.

Credit-by-Examination. Degree seeking students may take special or individually prepared examinations for which credit is awarded for a fee of $45.

Riding Fee. Classes in horsemanship are available and require payment of a special instructional fee which is in addition to the tuition charge. This fee ranges from $250 to $300 per semester. Transportation is also available at a nominal fee.

Study Abroad Fee. Students planning to study abroad for a semester or year must pay a program service fee of $25 per semester for advising, counseling, and other administrative detail required for this program.

Speech Pathology Fee. Students leaving the College to complete the fourth year in Speech Pathology must pay a program service fee of $50 prior to enrolling in the cooperating institution.

Medical Technology Fee. Students pursuing the fourth year of Medical Technology at a cooperating institution shall pay the established tuition rates at Mary Washington College, if tuition is not charged by the cooperating institution, or shall pay the difference between the tuition charged by the cooperating institution and the tuition at Mary Washington College, if tuition of the cooperating institution is less than the Mary Washington College tuition.

Bachelor of Liberal Studies Life/Work Portfolio. BLS candidates will pay a $25 fee for the review of their life/work portfolio.

Senior Citizens. A legal resident of Virginia 60 years of age or older may take courses at Mary Washington at reduced rates provided space is available. A resident having a taxable income not exceeding $5,000 for federal income tax purposes for the preceding year may enroll in courses for credit or non-credit or may audit credit courses (attend classes without receiving grades) at no charge. A Virginia senior citizen with federal taxable income levels exceeding $5,000 may audit credit courses or enroll in non-credit courses without paying general college fees, but must pay general college fees in order to take courses for college credit. The application fee of $15 will be charged an applicant whose taxable income exceeds $5,000.

Terms of Payment

All fees, including room and board, are billed and payable in advance by the semester.

Room and Tuition Deposits. After notification of acceptance for admission or continuance by the Vice President for Admissions and Financial Aid, a deposit of $100 is required of a residential student, and a $50 deposit is required of a non-residential student. No student will be assigned a residence hall room until this payment has been received. These deposits are not normally refundable after a specified deadline and are applied to the fees for the regular session immediately following.

A residential accommodation is reserved and guaranteed for each student who indicates he or she wishes a space in college housing. Any student who changes from residence hall to commuting status after an announced deadline date will be required to pay the room fee for the assigned space for the semester.

Exceptions to the policy will be made only in the most unusual circumstances, as determined by the Vice President for Business and Finance and the Vice President for Admissions and Financial Aid.

Statements and Due Dates. Each student is mailed a statement well in advance of the beginning of each semester and payment is due by the date specified on the statement. Any variations from the terms of payment listed below must be approved in writing by the Vice President for Business and Finance prior to the due dates.

If a full-time student has not received a statement of charges and fees within 45 days prior to the beginning of the semester, the student should notify the Office of Student Accounts as soon as possible, so that a statement can be prepared, mailed, and the account paid by the due date.

A late payment fee of $75 will be charged to any student whose full payment has not been received in the Office of Student Accounts by the due date.

At the end of the semester a student's account will include any charges incurred for library fines, lost books, parking tickets, prescriptions, lost keys, building and equipment damage, and any other miscellaneous charges. At this time, any student whose full account has not been settled will not be permitted to take exams, receive grades or transcripts, or be eligible to return to the College until the account is settled.

Scholarship and Loan Awards. If a student is receiving financial aid through Mary Washington College, one half the annual award will be shown on each semester statement. If an award has not been credited on the statement, the student should notify the Office of Student Accounts immediately so that a revised bill may be prepared.

If a student is receiving financial aid from a source other than the College, it is the student's responsibility to insure that notification of the award, its amount, and method of payment have been received in the Office of Student Accounts by the statement due date. Failure to provide such notification could result in a student's account being delinquent.

Delinquent Accounts. Any charge incurred in collecting a delinquent account will be added to the account. This applies, but is not limited to charges by an attorney or collection agency.

Refund of Fees. A student who withdraws from the College during the semester should notify the Office of the Academic Dean immediately upon withdrawal and complete the withdrawal form. A copy of the form will be sent to the Office of Student Accounts and will serve as the basis for withdrawal charges and credits.

All students, full- or part-time, residential or non-residential, must withdraw through the Office of the Academic Dean. Adjustment of charges and credits may be made only by the Office of Student Accounts.

The following charges are applicable for students withdrawing during the semester:

Withdrawal Charges

Semester Basis	1st/15th day of semester	16th/55th day of semester	After 55th day of semester
Tuition	20% of semester charge	50% of semester charge	Full semester charge
Residential Fee*	$100	50% of semester charge	Full semester charge
Comprehensive Fee	20% of semester charge	50% of semester charge	Full semester charge
Board Fee		See Below	

*For the purpose of determining withdrawal charges, the semester begins with the first day of classes. A residential student withdrawing prior to the first day of classes will be charged the $100 room deposit and board at the prevailing daily rate.

Board Fee. Charges will be assessed on the basis of the number of days in residence at the prevailing board rate for the semester in which the student withdraws.

Classification as a Virginia Student

The following explanation of who is eligible to receive reduced tuition charges is a quote from the Code of Virginia, Section 23-7 as amended. It became effective July 1, 1977.

For the purposes of this section, the domicile of an unemancipated minor may be the domicile of either parent; provided however, that if one parent has custody, the domicile of an unemancipated minor shall be the domicile of the parent having custody. If there is no surviving parent or the whereabouts of the parents are unknown, then the domicile of an unemancipated minor shall be the domicile of the legal guardian of such unemancipated minor if there are no circumstances indicating that such guardianship was created primarily for the purpose of conferring a Virginia domicile on such unemancipated minor.

Except as provided in Section 23-7.2, no person in attendance at a State institution of higher education shall be entitled to reduced tuition charges unless such person is and has been domiciled in Virginia for a period of at least one year immediately prior to the commencement of the term, semester or quarter for which any such reduced tuition charge is sought.

A person who enrolls in any such institution while not domiciled in Virginia does not become entitled to reduced tuition charges by mere presence of residence in Virginia. In order to become so entitled, any such person must establish that, one year before the date of alleged entitlement, he or she was at least eighteen years of age (or if under the age of eighteen, was an emancipated minor) *and* he had abandoned his or her old domicile *and* was present in Virginia with the unqualified intention of remaining in Virginia for the period immediately after leaving such institution and indefinitely thereafter.

A person who is classified or classifiable at the date of his or her marriage as eligible to receive the privileges herein described, may receive or continue to receive such privileges until he or she abandons his or her Virginia domicile other than through any presumption of law attaching to the ceremony of marriage.

A student who is not a member of the armed forces and who is not otherwise eligible for reduced tuition charges and whose spouse or parent is a member of the armed forces stationed in this State pursuant to military orders shall be entitled to reduced tuition charges if such spouse or either parent, for a period of at least one year immediately prior to and at the time of the commencement of the term, semester, or quarter for which reduced tuition charges are sought, has resided in Virginia, been employed full-time and paid personal income taxes to Virginia. Such student shall be eligible for reduced tuition through such parent under this section only if he or she is claimed as a dependent for Virginia and federal income tax purposes. Such student shall be entitled to reduced tuition charges so long as such parent or spouse continues to reside in Virginia, to be employed full-time and to pay personal income taxes to Virginia.

Entitlement to reduced tuition charges must be established by convincing evidence and the burden of establishing entitlement shall be on the person claiming such entitlement.

The State Council of Higher Education for Virginia shall, in conjunction with the Office of the Attorney General, seek to ensure that all State institutions of higher education will apply uniform criteria in determining eligibility for reduced tuition charges.

Financial Aid

The primary responsibility for financing a college education must be as-

sumed by the parents and the student. Mary Washington College does, however, provide assistance to students whose parents cannot provide all the funds needed to meet college costs. Approximately one million dollars is available per year for this purpose. Financial assistance from the College should be viewed as supplementary to the efforts of the family.

The College believes that, although financial need should be and is of prime consideration in awarding grants and loans, merit also should be recognized by making available certain scholarship funds for rewarding and encouraging high academic achievement.

It is MWC's policy to meet the demonstrated need of its students without regard to physical disability, political affiliation, marital status, sex, color, race, religion, age, or national origin with a "package" of assistance which combines loan, grant, scholarship and/or employment. This procedure guarantees each recipient a fair share of gift funds, keeps loans at a proportionate level and develops a sense of responsibility and independence through the concept of self-help. Students with the greatest need will receive larger grant and work resources than those with lesser need.

Through a comprehensive program of grants, scholarships, loans, and student employment from Federal, State, College and community resources, the Office of Admissions and Financial Aid has been able to meet the demonstrated need of all applicants who apply within the deadline. However, it is the policy of the College to provide assistance only for direct educational costs. An exception is made for students who participate in the off-campus College Work-Study Program during the summer when indirect costs are funded for those who demonstrate sufficient need.

Demonstrated need is determined by a uniform analysis and evaluation of the applicants' and their families' incomes and assets. MWC is a member of The College Board and subscribes to an activity of that organization known as the College Scholarship Service (CSS), which provides MWC with a systematic need analysis of the applicant's resources. From this analysis the financial aid officer determines the amount of demonstrated need a student may have and then uses the College's available resources to meet that need.

Financial need is the difference between the cost of education at MWC and the amount of money a student and his/her family can reasonably provide to meet these expenses.

Freshmen and transfer students are asked to submit a Financial Aid Form (FAF) (available at high schools or colleges) **postmarked** to CSS before March 1. Returning students must have the FAF **postmarked** before March 15. Early decision candidates are asked to file the FAF after January 1 of their senior year. The form should indicate that Mary Washington College (CSS code 5398) should receive a copy of the results of the need analysis. First-time students will be informed of their financial assistance by mid to late April and returning students by mid-June. Late applicants, those not meeting the stated FAF filing deadlines, will be considered for assistance **only** if they demonstrate need and funds are available.

All needy students are expected to contribute a portion of their summer earnings to their educational costs. During the 1982-83 session freshmen are expected to contribute $700 and upperclassmen $900 from their summer earnings.

Money available to the applicant from outside organizations (e.g. Veteran's benefits, high school scholarships, state grants) is taken into account when financial need is determined. If such resources become available after an applicant has submitted an aid application or after the applicant has received a financial aid award, it is the student's responsibility to notify the Office of Admissions and Financial Aid of the source and amount of assistance. A student's aid cannot exceed demonstrated need, and consequently outside assistance may necessitate a revision in the financial award.

College policy denies financial aid recipients in residence at MWC permission to maintain their own cars or cars owned by members of their families unless prior written permission is granted. Financial aid given to students maintaining cars without permission is subject to revocation. Permission is granted only for reasons of health or academic necessity.

Each year a student must re-establish eligibility for financial aid by submitting the Financial Aid Form to the College Scholarship Service. Family assets and income vary annually, and it is appropriate that the amount of assistance a student is to receive be reviewed annually and adjusted according to the demonstrated need. Should unusual circumstances become evident and justifiable after submission of a financial statement, the student may seek an adjustment in aid for that year by contacting the financial aid officer.

Financial aid recipients who withdraw from the College before the scheduled end of an award period will have their awards recalculated according to the established refund policy of the College which is based on current Federal regulations.

One-half of all scholarship, grant and loan awards will automatically be credited to the recipient's account at the beginning of each semester. Student employment earnings will be paid directly to the recipient. College work-study earnings are paid directly to the student with a specified amount being used for educational purposes.

New students interested in possible campus employment may contact the Office of Admissions and Financial Aid to receive the required application form. Currently enrolled students may obtain the required application from the Office of Admissions and Financial Aid.

College Scholarships and Grants

All scholarship and grant recipients must maintain at least good standing or better, as stipulated by the scholarship, and make normal progress toward a degree. Information on scholarships and grants may be obtained in the Office of Admissions and Financial Aid unless otherwise specified.

Regional Scholarship Program. Each spring, alumni committees select up to 25 outstanding and promising entering freshmen students as Regional Scholars, 20 of whom will come from Virginia's 10 Congressional Districts and up to five from among out-of-state nominees. These scholars receive four-year $1,500 honor scholarships in recognition of superior academic preparation and potential for achievement. To retain this scholarship, a student must maintain a grade point average of 2.5 during the freshman year and 3.0 in subsequent years to be eligible for consideration. Students must be nominated by their high school principals or guidance counselors before they may apply for their scholarships. Deadline for nomination is December 15. An applicant for the scholarship must also be an applicant for admission.

Mary Washington College Anonymous Scholarships. These scholarships are awarded annually to students in need of financial assistance, and who maintain satisfactory progress.

State Scholarships. These scholarships are awarded by the College on the basis of demonstrated financial need to regular full-time students who are legal residents of Virginia.

Maurine Arnott Scholarship. This scholarship was established by a bequest from Maurine Arnott to aid worthy and needy students, with preference given to female students.

Lalla Gresham Ball Scholarships. These scholarships were established by Mrs. Jessie Ball duPont in memory of her mother. An applicant must reside in one of the following counties of Virginia: King George, Westmoreland, Northumberland, Richmond, Lancaster, Essex, or King and Queen. These scholarships may be renewed annually provided the recipient maintains good academic standing (a C or 2.0 overall average).

Biology Scholarship. By the gift of an anonymous donor scholarships are available for students majoring in biology. Information about this scholarship program may be obtained from the Biology Department Chairman, Combs Science Hall.

Lt. General Albert J. Bowley Scholarship Fund. This scholarship was established by Mrs. Elsie Ball Bowley in memory of her husband, Lt. General Albert J. Bowley, a distinguished officer of the United States Army. The recipient is to devote to the James Monroe Memorial Library as much time and service as the authorities of Mary Washington College prescribe. Consideration is first given to juniors and seniors who are daughters of service personnel, and then to students from foreign countries (preferably Latin Americans), or to upper-classmen whose major interests and work lie in the fields of history or political science. Inquiries should be addressed to the Dean of the College.

Bushnell Scholarship. This scholarship is awarded to a student in need of financial assistance who maintains satisfactory academic progress.

The Chandler Scholarship. Algernon B. Chandler, President of Mary Washington from 1919 to 1928, bequeathed a sum to the College. The proceeds are used toward the education of a junior or senior selected on the basis of scholarship and need.

Chi Beta Phi Scholarships. This national honorary scientific fraternity awards annual scholarships to outstanding students majoring in science or mathematics. Preference is given to members of Chi Beta Phi.

Faculty Children's Scholarship Fund. This scholarship has been created for the purpose of offering financial assistance to those children of currently employed, full-time Mary Washington College faculty who may wish to matriculate as full-time degree seeking, undergraduate students at MWC. These awards will be made without any consideration to financial need or special academic qualifications and with the proviso that the recipients maintain academic good standing and full-time, degree seeking enrollment status. Applicants must write a letter of interest to apply for the scholarship by May 15. Letters are to be directed to the Office of Financial Aid.

Barbara Diane Hall Foundation. Established by Mrs. Dorothy N. Bonnet in memory of her granddaughter. The scholarship is to be awarded annually to a fine arts major attending MWC.

Anne and Sidney Hamer Music Award. This annual award is presented each spring semester to the Bachelor of Arts music major who has earned the highest overall grade point average during his/her three and one-half or more years of study at MWC.

The Michael Houston Memorial Fund. Established in 1973 in memory of Michael Houston, the first Vice President of the College and Associate Professor of History, scholarships are awarded to students whose parents are among the classified personnel at the College.

Martin Luther King Memorial Scholarship. Established by members of the College community following the assassination of Dr. King, this scholarship is awarded to a financially needy student selected by the Office of Admissions and Financial Aid.

Albert R. Klein Memorial Scholarship. This scholarship was established in memory of Dr. Albert R. Klein, former Chairman of the Department of Dramatic Arts and Speech. Preference is given to students pursuing a major or concentration in drama or speech.

Minnie Rob Phaup Memorial Scholarship. Established in memory of Minnie Rob Phaup, former member of the Mary Washington College faculty, this scholarship may be awarded to an outstanding junior or senior in psychology or for graduate study in psychology.

Jeannine Mary Pfeifle Scholarship. In memory of Jeannine Mary Pfeifle, class of 1979, this $500 scholarship is awarded each year by a College selection committee to a rising senior who is a U.S. citizen. Specifically and in descending order of priority, the recipient shall be a daughter of a U.S. Marine serviceman, daughter of a U.S. Navy serviceman, the son of a U.S. Marine serviceman or the son of a U.S. Navy serviceman.

Carrol H. Quenzel Memorial Scholarship Fund. Established in memory of Dr. Carrol H. Quenzel, former Mary Washington Librarian and Professor of History, these annual scholarships are awarded to deserving junior and senior students. Preference is given first to those who worked in the previous semester or who are working in the current semester in the Library, and next, to students majoring in history.

Lynn Ruby Memorial Scholarship. Established in memory of Lynn Ruby '68, this award is available first to graduates of Woodbridge Senior High School, Woodbridge, Virginia, and then to residents of the State of Ohio.

Annie Fleming Smith Scholarship Fund. This scholarship was established by Mrs. Elsie Ball Bowley in memory of Mrs. Annie Fleming Smith whose efforts made possible the preservation of Kenmore, the home of George Washington's sister. The recipient must devote to the Kenmore Association as much time and service as the authorities of Mary Washington prescribe. In awarding this scholarship, primary consideration is given to students from the Virginia Northern Neck, consisting of King George, Westmoreland, Richmond, Lancaster and Northumberland counties. Inquiries should be addressed to the Dean of the College.

The Thomas Howard and Elizabeth Merchant Tardy Endowment Fund. The income from the grant is used primarily to aid students descended from James R. Tardy and his wife, Mary M. Tardy, and from William H. Merchant and his wife, Belle Ashby Mechant. If funds remain after assisting descendents, other needy students may also be considered for assistance.

Frances Thompson Scholarship. This scholarship is awarded to a student from the Fredericksburg area who is in need of financial assistance and maintains satisfactory academic progress.

Tillery Scholarship. The recipient must be a graduate of a public senior high school in Hampton, Virginia, who has the intent of being a residential student at MWC for four years and earning a BA or BS degree. This $500 scholarship for each of the four years is awarded in recognition of superior academic preparation and potential for achievement. To retain this scholarship, a student must maintain a cumulative grade point average of 2.5 on a 4.0 scale during the freshman year and 3.0 in subsequent years. Students must be nominated by their high school principals or guidance counselors before they may apply for their scholarships. Deadline for nominations is January 20.

Aurelia B. Walford Scholarships in Music. Established by the will of Mrs. Walford, these scholarships are awarded annually to entering students who intend to major in music. Awards are made on the basis of academic merit and performance skills. Inquiries should be addressed to the Chairperson of the Music Department.

J. Binford Walford Scholarships in Architecture. Established by the will of Mrs. Aurelia B. Walford, these scholarships are awarded annually to entering students who have expressed career interests in architecture and/or architecture related studies. Awards are based on academic merit and an intention to pursue architectural studies. Inquiries should be directed to the Chairperson of the Art Department.

Federal and State Grants

Pell Grant (formerly Basic Educational Opportunity Grant). The Pell Grant Program was designed by the Federal government to provide financial assistance for those who without such assistance could not attend college. Pell grants are intended to be the floor of a financial aid package and may be combined with other forms of aid to meet the cost of education. The amount of a Pell Grant is determined by student and family financial resources.

Unlike a loan, a Pell Grant does not have to be repaid. Applications are available in the secondary schools and in the College's Office of Admissions and Financial Aid, or application may be made by submitting an FAF to the CSS.

Supplementary Educational Opportunity Grants. Established by the Higher Education Act of 1965 and subsequent amendments, these grants are awarded to students having exceptional financial need who otherwise would not be able to attend the College. Recipients must maintain satisfactory academic progress.

The Virginia College Scholarship Assistance Program Grant. The Virginia College Scholarship Assistance Program provides need-based grants to Virginia students enrolled in Virginia public and private institutions of higher learning.

The program's purpose is to serve as one means of guaranteeing that financial conditions will not prevent the Commonwealth's college-age students from gaining access to higher education. VFAF applications usually must be filed no later than April 15 with the State Council of Higher Education for Virginia. These applications are available in secondary schools and in the College's Office of Admissions and Financial Aid.

Loans

(Information on all loans is available in the Office of Admissions and Financial Aid.)

MWC Student Aid Discretionary Loan Fund. Established in 1971 by the Cap and Gown Chapter of Mortar Board, this fund assists currently enrolled students in need of a cash sum.

National Direct Student Loan. Under the terms of this federal program administered by MWC, a student may borrow for undergraduate study. With demonstrated financial need as the main criterion, a National Direct Student Loan may be awarded to any citizen or permanent resident of the United States. No interest is charged while the borrower's student status continues. Under normal conditions, repayment must commence six months after cessation of formal education. Interest accrues at a low interest rate and repayment may be spread over a 10-year period.

Guaranteed Student Loan Program. This program enables students to borrow directly from banks, credit unions, savings and loan associations, or other participating lenders who are willing to make educational loans. The loan is guaranteed by a state or private nonprofit agency or is insured by the federal government.

Virginia Educational Loan Authority. This loan program was created by the Code of Virginia to provide loans to Virginia residents who are unable to secure guaranteed student loans from private lenders.

World War Orphan's Education Benefits. A program of assistance for children whose parent was killed in action, is missing in action or was prisoner of war in any armed conflict subsequent to December sixth, 1941, while serving in the Army, Navy, Marine Corps, Air Force or Coast Guard of the United States, or was or is or may hereafter become totally and permanently disabled due to service during such period. Additional information may be obtained from the Financial Aid Office.

Student Employment

(Information on student employment is available in the Office of Admissions and Financial Aid.)

Federal College Work-Study Program. Both on- and off-campus employment is available through this program to qualified students demonstrating financial need during the academic session. During the summer, only off-campus employment is available. During the regular session, students work from 10 to 15 hours a week and rate of pay begins at minimum student wage levels. During vacation periods students can work up to 40 hours per week in public or other non-profit organizations throughout the State under the auspices of what is known as the Virginia Program. Financial need must be demonstrated in order to be eligible. Net earnings from this program are used in meeting college costs.

Campus Employment. The College offers many opportunities for part-time campus employment. It is not necessary to demonstrate financial need to be assigned to campus employment, but campus jobs are assigned with demonstrated need and the ability to perform the job as primary factors. Most positions, which include those in the library, residence halls, laboratories, dining hall and faculty offices, pay about $675-2,000 for the nine-month session.

Requiring responsibility; affording freedom to make it real...

Courses of Study

Course titles and numbers are given in bold-face type, followed in parentheses by the number of semester credit hours. Courses are offered at least once a year unless otherwise noted, e.g., Fall 1983 means the course will be offered only once in 1982-84. Such notations are subject to change based on student needs and faculty availability. Therefore, the student should consult the schedule of courses, issued prior to the beginning of each semester, for specific semester offerings. The schedule of courses also gives the number of class meetings per week, the time and place of classes, and the name of the instructor. Before enrolling in a course the student should check the listed prerequisites.

Course offerings are divided into lower level (100 and 200) and upper level (300 and 400). Courses numbered 100 through 199 are usually regarded as elementary or introductory. Courses numbered 200 through 299 usually assume prior study or some competence in the subject, either in secondary school or in college. Courses numbered 300 through 498 are advanced courses and usually assume either previous course work or special competence in the field. Courses numbered 499 are internships. Individual study courses offer learning opportunities in areas or subjects not covered by regular courses.

Special Notes:

1. No course may be taken for credit which is a prerequisite or introductory to a course already passed successfully.
2. Continuous courses are those designed to be taken in a year-long sequence. If a pair of continuous courses is marked "only in sequence" at the end of the Catalog description, the first course is, without exception, prerequisite to the second.

   If a pair of these "only in sequence" courses is also marked with a hyphen (for example, French 101-102), any student who does not complete the sequence will have that fact noted on the transcript by the phrase "one-half of a year course".

   If the continuous courses have neither a hyphen nor an indication "only in sequence," the material in the second semester is not dependent upon the material in the first. A student may take either or both courses, and in any order.

American Studies

Department of History and American Studies; Mr. Thomas, Career Adviser

The American Studies program is interdisciplinary in nature, designed to provide students with a flexible, multi-faceted approach to the study of American society. Since the major provides much latitude in the selection of courses, students are encouraged to work closely with the Career Adviser in choosing courses which will form a cohesive program.

The American Studies seminars, ordinarily taken in the junior and senior years, help students to integrate courses in the various areas into a meaningful understanding of American culture. While the seminars range broadly across American history, their emphasis is upon the late 19th and 20th centuries, with the aim of identifying and analyzing major characteristics of modern technological society, clarifying its values and assumptions, and relating the present to the past and future. The seminar method of instruction is central to the program, and offers each student ample opportunity to participate fully in the learning process.

The American Studies major provides excellent preparation for students interested in law, journalism and communications, library science, museum work, teaching, and many areas of public service.

Requirements for the Major

Core Courses: American Studies 301, 302, 401, 402.

In Other Subjects: 24 credits from five main areas: American history, American literature and philosophy, American social sciences, American fine arts, and non-American civilization; no more than 6 credits in any one area; courses to be selected in consultation with Career Adviser.

301—Issues in Contemporary American Culture (3)
An examination of selected current issues in American culture. Specific issues will vary from year to year.

302—The Fine Arts in America (3)
Examples of modern music, dance, and drama are studied to illustrate the role of fine arts in American culture.

401—Mass Media and American Culture (3)
A study of the uses and influences of mass media in shaping social values. Emphasis on television and journalism.

402—Impact of Darwin and Freud on American Thought (3)
An examination of the influences of social Darwinism and psychoanalytic theory on 20th century American thought.

491—Individual Study (3)
Directed individual research on problems in American studies, as approved by the Career Adviser.

499—Internship
Supervised off-campus experience, developed in consultation with the Career Adviser. Credits variable.

Anthropology

Department of Anthropology, Geography and Sociology; Miss Williamson, Career Adviser.

Anthropology, the study of man, tries to define "human being" at the most general level by studying both the relationship between man and nature (biological, ecological, and cultural) and the varieties of human culture and society, past and present. The courses in anthropology consider these questions from the perspectives of physical anthropology, archaeology, ethnology, and linguistics. In addition the courses are intended to give the student an appreciation for the diversity of human cultural achievement.

A background in anthropology, especially when combined with other disciplines, is suitable for a number of careers such as museum work, journalism, advertising, personnel management, consulting and market research. Interested students may arrange a special degree with an anthropological emphasis, incorporating courses from a number of disciplines.

Anthropology 101 is prerequisite for all other courses except 102 and 201; except by permission of the instructor.

101—Introduction to Cultural and Social Anthropology (3)
Introduces the student to a variety of non-western cultures, and examines fundamentals such as ritual, myth, exchange, law, kinship, and marriage within those cultures. Prerequisite for all upper level courses except 102 and 201 unless permission of the instructor is obtained.

102—Introduction to Physical Anthropology and Archaeology (3)
Physical: primatology, genetics, human evolution, and human varieties. Archaeology: objectives and techniques; the course of cultural evolution from the Paleolithic period.

201—Ethnography of North American Indians (3)
Various Indian cultures from the Arctic, Sub-Arctic, Northwest Coast, Southwest, Plains, and Eastern North America; related theoretical problems.

202—Ethnography of South Pacific Peoples (3)
Prerequisite: Anthropology 101. Societies and cultures from the South Pacific, Philippines, Melanesia and New Guinea, Micronesia, and Polynesia (including New Zealand).

301—History of Culture Theory (3)
Prerequisite: Anthropology 101. Examination of theories of the analysis of culture from the beginnings of anthropological thought until the present. Fall 1983.

312—Women in Anthropology (3)
Prerequisite: Anthropology 101. The anthropological approach to sex roles; women as participants in culture; cultural characterizations of the feminine; the "male bias" in anthropology and its consequences.

322—Symbolic Anthropology (3)
Prerequisite: Anthropology 101. The interpretation of cultural symbols as found in rituals, myths, and everyday life, in both Western and non-Western cultures. Fall 1982.

491, 492—Individual Study and Research (3, 3)
Individual work under the guidance of the instructor. By permission of the instructor.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Art

Department of Art; Mr. Dreiss, Career Adviser for Art History; Mr. DiBella, Career Adviser for Studio Art

To foster the study and practice of the fine arts, the Art Department offers traditional, academic majors in Art History and Studio Art.

The purpose of the Studio Art major is to teach fundamental skills, increase aesthetic sensibilities, and further the student's individual development in the following media: ceramics, drawing, painting, photography, printmaking, sculpture, and textiles. The Art History major explores in chronological sequence the entire span of Western art and its contributions to our cultural heritage. In addition to slide lectures and the availability of an exceptional art library, students regularly take faculty-supervised tours of museums in Washington, D.C., Baltimore, and Richmond. An internship program provides opportunities for work experience prior to graduation. There are career opportunities for art majors in: graduate studies, teaching, the fine arts, museum curatorships, museum administration, historic preservation, conservation, restoration, editing and publications, gallery work, art appraisal, cartography, medical illustration, graphic design, slide curatorships, advertising, industrial design, and interior design.

Art History

Requirements for the Major

In major subject: 114, 115; 30 additional credits in Art History courses including at least one 400-level research-oriented course; one course from each of the following chronological periods: Classical, Medieval, Renaissance, Baroque, and Modern.

Recommended: For students interested in graduate work, French and German; for students interested in conservation and restoration, one year of Chemistry.

114, 115—Introduction to the History of Art (3, 3)
Survey of Western architecture, painting, and sculpture. Art 114, prehistoric to 1400; Art 115, 1400 to present. May only be taken in sequence.

220—History of Graphics (3)
Prerequisites: Art 114, 115. The history of European prints and printmaking from the 15th century to the present. Alternate years, offered Fall 1982 (does not fulfill any Art History major area requirements).

310—Greek Art (3)
Prerequisite: Art 114. Development of Greek art from the early Iron Age through the Geometric, Archaic, Classical, and Hellenistic periods.

311—Roman Art (3)
Prerequisite: Art 114. Roman art from the Italo-Etruscan period to the end of the Roman Empire.

320—Byzantine and Early Medieval Art (3)
Prerequisite: Art 114. Christian art in the Eastern and Western empires through the First Golden Age and the reign of Charlemagne to the year 1000. Fall 1982.

321—Medieval Art in France and England (3)
Prerequisite: Art 114. Sources and formulation of medieval art in northern Europe through the Gothic style in architecture, sculpture, and manuscript illumination. Spring 1983.

322—Medieval Art in Byzantium and Italy (3)
Prerequisite: Art 114. The Second Golden Age of Byzantine art: painting, sculpture, and architecture of the Italian Proto-Renaissance. Fall 1983.

330—Northern European Art, 1400 to 1600 (3)
Prerequisites: Art 114, 115. Painting in the Lowlands, France, and Germany from the late medieval period through the 16th century. Fall 1983.

331—Italian Renaissance Painting (3)
Prerequisites: Art 114, 115. Painting of the Italian Renaissance, its origins in the social and intellectual climate of the period. Spring 1984.

332—Italian Renaissance Architecture and Sculpture (3)
Prerequisites: Art 114, 115. Major works of architecture and sculpture in Renaissance Italy, including the historical and theoretical bases for these arts. Fall 1982.

340—Northern Baroque Art (3)
Prerequisites: Art 114, 115. 17th century art in the north of Europe with emphasis on Rubens, Rembrandt, landscape painting, Versailles. Spring 1984.

341—Italian and Spanish Baroque Art (3)
Prerequisites: Art 114, 115. Painting, architecture, and sculpture of the 17th century in Italy and Spain. Spring 1983.

342—Eighteenth Century Art (3)
Prerequisites: Art 114, 115. Concentration on the French Rococo and its evolution into Neoclassicism; English and Italian painting of the period. Fall 1983.

343—Georgian Art (3)
Prerequisites: Art 114, 115. British art and aesthetics; portraiture, landscape painting and gardening; Palladianism; Britain as a font of Romanticism. Spring 1984.

350—Nineteenth Century Art (3)
Prerequisites: Art 114, 115. Emphasis on French painting and sculpture through Neoclassicism, Romanticism, Realism, Impressionism, and Post-Impressionism.

351—Twentieth Century Art. (3)
Prerequisites: Art 114, 115. From Post-Impressionism to contemporary art in painting and sculpture.

352—American Art (3)
Prerequisites: Art 114, 115. A review of American painting and sculpture with emphasis on the 19th and 20th centuries. Spring 1983.

353—Modern Architecture (3)
Prerequisites: Art 114, 115. Form, style, and technology as related to historical sources and selected individuals. Spring 1983.

360—Architecture of Colonial America (3)
Prerequisites: Art 114, 115. Emergence of an indigenous American architecture with emphasis on regional and cultural influences to 1800. Fall 1982. (Does not fulfill any Art History major area requirements)

470—Special Studies in Art History (3)
Prerequisites: Art 114, 115. Concentration in seminar format on an individual artist, specific problem, limited time period, or iconographic theme; for Art History majors and other qualified students.

491, 492—Individual Study in Art History (3, 3)
Prerequisites: Art 114, 115, and at least three chronological area courses; for Art History majors only. Faculty approval of research project, oral presentation, and major paper. Vehicle for those seeking honors in Art History.

499—Internship
Supervised off-campus experience developed in consultation with the Art History faculty. Credits variable.

Studio Art

Requirements for the Major

In major subject: 101, 102; 24 additional credits in Studio Art courses of which at least 12 must be at the 300-400 level; at least one course in each of the following media: ceramics, painting, printmaking, and sculpture.

In other subjects: Art History 115; six additional credits in Art History chosen from 200, 300, and 400 level courses.

101—Two-Dimensional Design (3)
Basic study of design elements (line, shape, texture, value, color) used in visual communication, both figural and non-figural.

102—Three-Dimensional Design (3)
Foundation course dealing with experiments in 3-D design and architectonic constructions in a variety of media.

111, 112—Beginning Ceramics (3,3)
Basic techniques of handbuilding and wheel throwing; introduction to studio procedures including clay making, glaze preparation and application, and kiln firing.

170—Beginning Painting and Drawing (3)
Basic methods and techniques of realistic and abstract art; investigation of light and dark color, line, composition, and design. (May not be used to satisfy Studio Art major requirement in painting).

180—Silkscreen (3)
Introduction to serigraphic techniques and materials in a fine art mode. (May not be used to satisfy Studio Art major requirements in painting or printmaking).

211, 212—Life Drawing* (3, 3)
Prerequisite: Art 101. Various approaches to drawing the human body and other organic figurative and non-figurative imagery.

221, 222—Drawing and Composition* (3, 3)
Prerequisite: Art 101. Drawing from life; abstract and figurative composition in various media.

231, 232—Beginning Sculpture* (3, 3)
Prerequisite: Art 101 and 102. Study and construction of volume and mass using figurative and non-figurative subject matter in a variety of plastic and carving media.

311, 312—Ceramics I and II* (3, 3)
Prerequisite: Art 111 or 112. Further exploration of wheel-thrown forms, handbuilding processes, and sculpture; experiments with glazing and firing.

321—Printmaking I* (3)
Prerequisite: one year of drawing. Intaglio and relief processes in the production of multiple originals.

322—Printmaking II* (3)
Prerequisite: one year of drawing. Lithography and screen printing processes in the production of multiple originals.

327—Communications Design* (3)
Prerequisite: Art 101, 102, and one year of drawing. Conceptualization, design, and layout of work to be reproduced in print; introduction to graphic arts processes and techniques.

331, 332—Sculpture I and II* (3, 3)
Prerequisite: Art 231 or 232. Figurative and non-figurative conceptual approaches to form using a variety of media such as marble and hardwoods.

343, 344—Painting I and II* (3, 3)
Prerequisite: one year of drawing. Techniques, problems, concepts, and materials in the study of pictorial organization.

*Prerequisites can be waived at the discretion of the instructor.

353—Photography (3)
Orientation in darkroom techniques; use of the camera and other equipment; emphasis on photography as a fine art. By permission of instructor.

363—Textile Design* (3)
Prerequisite: Art 101. Introduction to fabric construction and surface design; projects in frame and four harness loom weaving and in direct dye techniques.

470—Special Studies in Studio Art (3)
Special courses in an area of Studio Art selected by the faculty after consultation with the students; advanced students only.

495, 496—Individual Study in Studio Art (3, 3)
Independent work under the supervision of a member of the Studio Art faculty. By permission of instructor.

499—Internship
Supervised off-campus experience developed in consultation with the Studio Art faculty. Credits variable.

*Prerequisites can be waived at the discretion of the instructor.

Biology

Department of Biological Sciences; Miss Johnson, Career Adviser.

The Department strives to create an atmosphere in which students can develop a strong background in the sciences and the intellectual independence to build on that foundation. Three major programs, Biology, Environmental Earth Sciences, and Medical Technology are offered. The courses offered by the Department and supporting disciplines provide such diversity that a number of areas of concentration are offered within the first two major programs.

Laboratory work enables the student to learn techniques and obtain data which support theories explored in lecture. Equipment and facilities, all of which are for student use, include a scanning, recording spectrophotometer, an ultracentrifuge, respirometers, research-grade, phase contrast, and fluorescence microscopes, a tissue culture laboratory, a radioisotope laboratory, physiographs, a phytotron, and an aquatic studies laboratory. Equipment for ecological studies in terrestrial, fresh water and marine environments includes live animal traps, plankton and insect nets, seines, a small fleet of boats including one equipped for trawling and dredging, and fresh and salt water aquaria. Collections of microscope slides, skeletons, preserved animals and an herbarium collection of over 5,000 pressed plants are also on hand.

Courses numbered 481 and 491 offer opportunities to pursue studies beyond the scope of listed courses. These may include library research and field and laboratory investigation. These courses may be used for honors. Financial support for student research is available. Experience and knowledge gained outside the College, with proper supervision, may be used for academic credit under 499—Internship.

Requirements for the Major

In Major Subject: 36 credits in Biology courses including 121, 122, 342 or 441, 442, and 450 or Environmental Earth Sciences 460.

In Other Subjects: Chemistry, 8 cr. hr. is prerequisite to a course required of all majors.

Recommended: Biology 231 and 321.

121, 122—Biological Concepts I, II (4, 4)
An introduction to biological principles and a survey of organisms. Laboratory.

202—Heredity and Evolution (3)
Prerequisite: Biology 121. Principles of heredity, their application to evolutionary theory, and their social implications. For non-majors only, except by permission of Chairperson.

204—Nutrition (3)
A survey of current information related to human nutritional needs in health and disease, demographic factors, food additives and special diets. For non-major credit except by permission of Chairperson. Fall 1983.

221—Anatomy of the Chordates (4)
Prerequisite: Biology 121, 122. A comparative study of the major systems of representative chordates. Laboratory.

231—Botany (4)
Prerequisite: Biology 121. Survey of the plant kingdom with emphasis on morphogenetic description, life histories, and evolutionary relationships. Laboratory.

250—Bioethics (3)
Prerequisite: Biology 121, 122. Selected topics considered from the standpoint of their biological consequences and ethical implications for man.

251S—History of Biology (3)
Prerequisite: Biology 121, 122. Chronological development of selected biological theories and their impact on contemporary biology.

252—General Ecology (3)
Prerequisite: Biology 121. A study of the relationships of plants and animals to their environment and the maintenance of balance in nature. For non-majors except by permission of Chairperson.

302—Embryology of the Chordates (4)
Prerequisite: Biology 121, 122. The development of representative chordates. Laboratory.

311—Plant Ecology (4)
Prerequisites: Biology 121, 122. Ecological principles as applied to plants including major biomes, plant succession, competition, environmental parameters, and methods of data collection and evaluation. Laboratory. Fall 1982.

312—Plant Physiology (4)
Prerequisites: Biology 121, 122. Experimental and theoretical treatment of the functional mechanisms in plants. Laboratory. Fall 1983.

321—Invertebrate Zoology (4)
Prerequisite: Biology 121, 122. Survey of invertebrate phyla emphasizing structural characteristics, life histories and evolutionary relationships. Laboratory.

322—Animal Ecology (4)
Prerequisites: Biology 121, 122, and Chemistry, 8 cr. hr. The relationship between animals and their environment. Field and laboratory studies include observations of marine, fresh water, and terrestrial animals. Laboratory.

323S—Entomology (4)
Prerequisite: Biology 121, 122 or equivalent. Introduction to structure, function and ecology of insects. Students prepare insect collections. Laboratory.

331—Histology (4)
Prerequisite: Biology 121, 122. The preparation and microscopic examination of animal tissues. Study of the relationship between function and structure of tissues and their cells. Laboratory.

342—Human Genetics (4)
Prerequisite: Biology 121. Application to the human of the principles of heredity. Laboratory.

351—Laboratory Techniques (4)
Prerequisites: Biology 121, 122, and Chemistry, 8 cr. hr. Introduces students to instrumentation used in physiological experiments. The scientific method and experimental design are discussed and used.

360—Cellular Physiology (4)
Prerequisites: Biology 121, 122 and Chemistry, 8 cr. hr. Recommended: Organic Chemistry. Principles of general and cellular physiology. Laboratory. Fall 1982.

361—Comparative Physiology (4)
Prerequisites: Biology 121, 122 and Chemistry, 8 cr. hr. A comparative study of physiological systems in animals. Laboratory. Spring 1983.

362—Comparative Endocrinology (4)
Prerequisite: Biology 121, 122 and Chemistry, 8 cr. hr. A comparative study of the endocrine mechanisms in vertebrates and invertebrates. Laboratory. Spring 1984.

363—Environmental Physiology (4)
Prerequisite: Biology 121, 122, and Chemistry, 8 cr. hr. Experimental and theoretical treatment of the role of environmental factors in the physiology of organisms. Fall 1983.

371—Microbiology (4)
Prerequisites: Biology 121, Chemistry, 8 cr. hr. Emphasis is placed on bacteria, their morphology, physiology, nutrition, and ecology. Laboratory.

372—Parasitology (4)
Prerequisite: Biology 121, 122. The structure, life histories, and host relationships of invertebrate parasitic forms. Laboratory.

382-383—Human Anatomy and Physiology (4, 4)
Prerequisite: Biology 121. The structure and function of the human at cell, tissue and organ system levels of organization. Laboratory.

391—Immunology (4)
Prerequisite: Biology 121, 122, and Chemistry, 8 cr. hr. Introduction to the principles and theories of host defense with emphasis on antibody production, characterization and identification. Laboratory.

422S—Marine Ecology (4)
Prerequisite: Biology 121, 122, and Chemistry, 8 cr. hr. A general introduction to the marine environment with emphasis on the biological, chemical and physical aspects of various marine communities.

423S—Research in Marine Ecology (1-2)
Prerequisite or corequisite: Biology 422S.

441—Genetics (4)
Prerequisites: Biology 121, 122, and Chemistry, 8 cr. hr; open to biology majors only, except by permission of Chairperson. The structure, function and transmission of genetic material. Laboratory.

442—Evolution (3)
Prerequisite: Biology 121, 122, and Chemistry, 8 cr. hr; open to senior biology majors only, except by permission of Chairperson. The history and development of modern evolutionary thought.

450—Seminar (1)
Prerequisites: Biology 121, 122. Readings, reports and group discussion on topics of historic and current biological interest. Open only to majors.

481—Readings in the Biological Sciences (2)
Readings in biological literature selected by the student. The student is guided by a staff member. Open to junior and senior majors by permission of Department.

491—Special Problems in Biology (3) or (4 for honors)
Prerequisite: Biology 481. Individual laboratory or field investigation supervised by a staff member. Open to junior and senior majors with permission of Department.

499—Internship
Prerequisite: junior or senior major in good academic standing with appropriate background. Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Business Administration

Department of Economics, Business and Public Affairs; Mr. Czarsty, Career Adviser

The degree in Business Administration is designed to provide an understanding of the variety of approaches to and the complexities of the managerial process in an ever-changing society, both within and outside the business firm.

The program aims to develop both specific analytical skills and a broad intellectual outlook in students who wish to combine their liberal arts education with course work of intellectual substance which will provide a background for an immediate career in business or for graduate study.

Requirements for the Major

In Major Subject: 18 credits in Business Administration courses 231, 232, 300, 310, 380, 490, plus 6 credits in upper level Business or Economics courses.

In Other Subjects: Economics 201, 202, 310, 362.

N.B. Courses in both Economics and Business Administration will be included in calculating the 55 credit maximum in the discipline. Business Administration majors may not double major with Economics or Public Administration.

231, 232—Principles of Accounting (3, 3)
Prerequisite or corequisite: Economics 201, 202. Fundamental accounting principles and practices involved in the recording and interpretation of accounting data. Only in sequence.

Business Administration 231 and 232 are prerequisites for all other Business courses. BUAD 231 must be completed before declaration of major.

300—Principles of Management (3)
The fundamentals of management and organization for business operations. Emphasis is placed on the theory of management, authority and responsibility, organization principles, the managerial job, direction and leadership, decision making, policy formation, planning and control.

301—Organization Theory (3)
Prerequisite: Business Administration 300. Formal and informal organizational structure; variables affecting the administration of complex organizations.

302—Production Systems (3)
Prerequisite: Business Administration 300. Managerial procedures in the production process; planning, control, standards, and reports.

310—Principles of Marketing (3)
Prerequisite: Economics 201, 202 and Business Administration 231, 232. The place of marketing in the economic system together with the policies and practices of marketing institutions. Subjects considered include: marketing functions, marketing organization, marketing research, merchandising, channels of distribution, transportation and social regulation of marketing.

311—Consumer Behavior (3)
Prerequisite: Business Administration 310. Analysis of consumer behavior and theories of consumer choice; techniques and problems in predicting consumer behavior.

312—Retail Management (3)
Prerequisite: Business Administration 310. The organization, operation, and management of retail establishments; inventory methods, retail buying and selling.

331, 332—Intermediate Accounting (3, 3)
More advanced principles of accounting. Only in sequence.

333—Cost Managerial Accounting (3)
Prerequisite: Business Administration 231, 232 or permission of instructor. Fundamental principles and procedures of the analysis of cost systems, cost concepts and behavior, performance measurement, and analytical uses of accounting data for administrative decisions.

341—Personnel Administration (3)
Prerequisite: Business Administration 300. An analysis of the problems and practices in personnel management; selection, placement, evaluation, promotion, and termination.

380—Business Law (3)
A survey, through the case method approach, of the legal principles and rationale underlying the rights and obligations of business relationships. The Uniform Commercial Code is emphasized.

403—Organizational Behavior (3)
Prerequisite: Business Administration 300. Dynamics of organizational behavior in business, interpreted from a behavioral science perspective.

413—Marketing Research (3)
Prerequisite: Business Administration 310. Research in marketing as a tool for the identification, collection, and analysis of information relevant to decision-making by the marketing executive.

431—Governmental Accounting (3)
Prerequisites: Business Administration 231, 232. Accounting for governmental organizations (municipalities, state and federal governments, school districts, hospitals and universities). Nature of fund accounting, allocation of funds, disbursements, operational auditing, administrative and legal control.

432—Advanced Accounting Problems (3)
Prerequisites: Business Administration 331, 332. Advanced problems in financial accounting theory dealing with partnership, corporations, consolidated statements and fiduciary accounting.

434—Federal Taxation (3)
Prerequisites: Business Administration 231, 232 or permission of instructor. An examination of the federal tax structure and the application of tax principles to the solutions of problems.

442—Labor-Management Relations (3)
Prerequisite: Business Administration 341. A survey of collective bargaining process, the labor contract, unionism, impact of labor-management relations on wages, the legal context of labor-management relations and the responsibilities of unions and management.

471—Business Administration Seminar (3)
Special topics of interest to staff and students will be discussed in seminar.

490—Business Policy (3)
Prerequisite: 24 credit business core. A senior-level course which is the capstone of the student's study of business administration. Cases concerning administrative management present problems involving the integration of departmental policies into administrative decisions.

491—Individual Study in Business Administration
Directed individual research on an approved problem in business administration. Credits variable.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Chemistry

Department of Chemistry and Geology; Mr. Mahoney, Career Adviser

The chemistry program offers a modern curriculum designed for the student planning on graduate, medical or dental school (See Pre-Medical Program), employment in industrial chemistry, secondary school teaching, or for the student desiring to study chemistry within the general framework of a liberal arts and science education. In addition, there are courses which offer considerable opportunities for student in related fields such as biology, the health sciences and environmental earth science. By supplementing the chemistry major with course offerings in related fields, students may acquire a career-focused grouping, e.g., chemistry-mathematics/computer science for chemical engineering and industrial chemistry; chemistry/economics or business administration for industrial chemistry; chemistry-biology for health sciences; chemistry-geology/environmental earth science for positions involving energy or environmental research.

The Department of Chemistry and Geology has well-equipped laboratories to support and reinforce classroom instruction. Facilities include ultraviolet, visible, infrared, nuclear magnetic resonance, atomic absorption and mass spectrometers, and gas chromatographs. Complete emission spectrographic and x-ray laboratories and computer facilities are also available.

Requirements for the Major

In Major Subject: 39-40 credits in the following Chemistry courses: 111, 112, 211, 212, 252, 383, 384, 385, 423, 451, 452, and one other upper-level course.

Mathematics 221 and Physics 201, 202 are prerequisites to Chemistry 383, 384 and should be completed before the junior year.

105, 106—Introductory Chemistry (4, 4)
An overview of the principles of chemistry with emphasis on practical applications. Laboratory. Only in sequence. Not a part of the major program.

111, 112—General Chemistry (4, 4)
Introduction to the fundamental principles of chemistry and the more important elements and their compounds. Laboratory. Only in sequence.

205—Essentials of Organic Chemistry (4)
Prerequisite: Chemistry 112 or 106. A general survey of carbon compounds including the study of their structure and reactivity. Laboratory.

211, 212—Organic Chemistry (4, 4)
Prerequisite: Chemistry 112. Structural theory and reactivity of carbon compounds. Laboratory. Only in sequence.

252—Analytical Chemistry (4)
Prerequisites: Chemistry 112 or 106, and Mathematics 111 or equivalent. Theory and techniques of analytical chemistry including introductory instrumental methods of analysis. Laboratory.

317, 318—Biochemistry (3, 3)
Prerequisite: Chemistry 212. The application of chemical principles to the study and understanding of the living state. Only in sequence.

319, 320—Biochemistry Laboratory (1, 1)
Prerequisites: Chemistry 212, 252. Corequisites: Chemistry 317, 318. Selected research techniques involving the chemical composition and properties of cells, tissues and organisms.

333—Environmental Chemical Analysis (4)
Prerequisites: Chemistry 252, 205 or 211, 212. Modern laboratory and field methods used in the evaluation of environmental systems. Laboratory.

343—Inorganic Chemistry (3)
Prerequisite: Chemistry 112. Modern theories of atomic structure and chemical bonding and their applications to molecular and metallic structures and coordination chemistry.

383, 384—Physical Chemistry (3, 3)
Prerequisites: Chemistry 112 and Physics 201, 202, Mathematics 221. Thermodynamic, kinetic, quantum mechanical and spectroscopic properties of chemical systems.

385—Physical Chemistry Laboratory (3)
Prerequisite: Chemistry 252. Corequisite: Chemistry 383. Selected experiments involving measurements and evaluation of physicochemical properties of chemical systems.

392—Instrumental Methods of Analysis (4)
Prerequisite: Chemistry 252, 385. Principles and methods of optimization of instrumental methods used in characterizing chemical systems. Laboratory.

411—Advanced Organic Chemistry (3)
Prerequisite: Chemistry 212. Organic reaction mechanisms and the relation of molecular structure to physical and chemical properties.

423—Experimental Methods in Chemistry (5)
Prerequisites: Chemistry 212, 252. Spectroscopic, chromatographic and chemical functional group techniques used in characterizing chemical systems. Laboratory.

451, 452—Seminar (1, 1)
Senior student reports on selected topics in chemistry for oral presentation and discussion.

471—Advanced Topics in Chemistry (2-3)
Prerequisite: permission of the instructor. Advanced treatment of selected topics in chemistry.

491—Individual Study (1-4)
Individual investigation under the direction of a member of the Department. Open to qualified students by permission of the Department.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Classics

Department of Classics, Philosophy, and Religion; Ms. Hatch, Career Adviser

Classics involves the study of the language and literature of ancient Greece and Rome, as well as the civilization which evolved during the period of Greek and Roman domination of the Mediterranean World. Since many of the ideas and principles which emerged at that time are basic to the heritage of Western civilization, courses in classics are usually applicable to the study of almost all the liberal arts.

Students wishing to major in classics are offered the choice of a concentration in Latin or the interdisciplinary concentration major in Classical Civilization. In either area, students develop the program—which may include individual study—in consultation with a faculty adviser.

While many classics majors include teacher certification in their schedule, other students combine their concentration in Latin or Classical Civilization with studies in related fields, such as history, philosophy, religion, English, or modern foreign languages. With such a background, graduates have a wide range of opportunities after college, including museum work, archaeology, graduate study, teaching, or translating.

See also listings under *Greek* and *Latin*.

Requirements for the Classical Civilization Concentration Major

39 credits in approved courses relating to classical civilization, including at least 12 credits in Latin or Greek independent of those credits used to establish competency in a foreign language.

Approved courses: Art History 114, 310, 311; CPR 299; English 211, 212, 234, 242; History 331, 332; Italian 395; Linguistics 101; Philosophy 111, 312, 321; Religion 205, 206, 220, 306, 341 (Augustine).

131—Greek and Latin Roots of the English Language (3)
Introduction to the basic Latin and Greek components of English.

201—Classical Motifs in Literature (3)
A study of heroism, the heroic journey, and related themes in Homer, Virgil, and post-classical writers.

202—A Touch of Madness: The Greek Tragic Experience (3)
A study of the tragic plays of Aeschylus, Sophocles, and Euripides. Fall 1982.

205—Mythology (3)
The principal Greek and Roman myths, with emphasis on their influence in literature and art.

206—Greek and Roman Religion (3)
The public, personal, and mystery religions of the Greeks and Romans, and the development of classical religious ideas. Usually offered alternate years.

207—Greek and Roman Civilization (3)
Major facets of Greek and Roman culture and their influence on later Western civilization. Fall 1982.

208—Greek and Roman Comic Spirit (3)
Study of selected works by Greek and Roman comedians and satirists. Usually offered alternate years.

380—Archaeology of the Greek and Roman World (3)
Prerequisite: Art History 114 or History 331 or 332. Study of the archaeological excavation of Greek and Roman sites, with emphasis on problems of archaeological methods and interpretation. Usually offered alternate years.

381—History of Classical Scholarship (3)
Prerequisite: 3 credits in classical civilization courses. A survey of classical scholarship from ancient times to the present. Usually offered alternate years.

451, 452—Special Studies in Classical Civilization (3, 3)
Reading and study in a specialized area of ancient culture. By permission of the Department.

491—Individual Study in Classical Civilization (1-4)
Individual study under the direction of a member of the staff. By permission of the Department.

Classics, Philosophy, and Religion

Department of Classics, Philosophy, and Religion

200—Introduction to Women's Studies (3)
Exploration of questions about sex and gender roles and differentiation, misogyny, and conceptions of male/female experience. Spring 1983.

299—Mysterium Humanum Studies (3)
Different topics of fundamental human concern are treated at different times in this interdisciplinary course involving Classics, Philosophy, and Religion.

Computer and Information Science

Department of Mathematical Sciences and Physics; Mr. Ackermann, Career Adviser

The Department of Mathematical Sciences and Physics offers a major in Computer and Information Science.

The principal hardware support for the program is provided by a PRIME 550-II computer. Over thirty terminals on campus provide access to the system for students and faculty. There are also several micro-computers, printers, and a plotter available to students in the Computer Science Program.

A student majoring in computer science has the opportunity to undertake graduate work or pursue a career in many fields including government, industry or teaching.

Requirements for the Major

In Major Subjects: 18 credits in Computer and Information Science courses including 221, 301, 311, 321, 331, and 401.

In Other Subjects: 18 credits as follows: 9 credits in Mathematics 221, 325, and Statistics 321, and 9 credits from Philosophy 151, 306, any Physics course, any Mathematics course above Mathematics 221, and any Computer Science course above Computer Science 301.

101—Introduction to Computers (2)
Introduction to computers; structure and application of computer systems, programming in BASIC language.

211—Programming in COBOL (3)
Computer organization, programming, algorithm development and applications in COBOL.

215—Advanced COBOL Programming (3)
Prerequisite: Computer Science 211. The design and development of structured programs that create and maintain advanced file structures. Advanced programming concepts such as the use of the sort utility and other external modules.

221—Programming in FORTRAN (3)
Corequisite: Mathematics 121. Computer organization, programming, algorithm development and applications in FORTRAN.

301—Introduction to Computer Systems (3)
Prerequisite: Computer Science 221. Computer structure and machine language, assembly language, addressing techniques, macros, file I/O, segmentation and linkage, assemblers and interpretive routines.

311—Computer Organization (3)
Prerequisite: Computer Science 221 and 301. Basic logic design, coding, number representation and arithmetic, and introduction to computer architecture.

321—File Processing (3)
Prerequisite: Computer Science 221. Data structures, file processing environments, sequential and direct access files.

331—Operating Systems and Computer Architecture I (3)
Prerequisites: Computer Science 301 and 311. Includes such topics as dynamic procedure activation, system structure, evaluation, memory management and recovery procedures.

401—Organization of Programming Languages (3)
Prerequisite: Computer Science 301. An applied course in programming language construction emphasizing the run-time behavior of programs.

411—Data Structures and Algorithm Analysis (3)
Prerequisite: Computer Science 321. Application of analysis and design techniques to nonnumeric algorithms which act on data structures and selection of methods for data manipulation.

431—Operating Systems and Computer Architecture II (3)
Prerequisite: Computer Science 331. Continued development of material in Computer Science 331.

441—Theory of Programming Languages (3)
Prerequisite: Computer Science 401. A formal treatment of programming language translation and compiler design concepts.

451—Automata, Computability and Formal Languages (3)
Prerequisite: Computer Science 441. A sampling of theoretical computer science, to include finite state concepts, formal grammars, computability and Turing machines.

470—Selected Topics in Computer Science (3)
Prerequisite: permission of the instructor. Treatment of selected topics in computer science.

491—Individual Study in Computer Science (3)
Prerequisite: departmental permission. Individual study under the direction of a member of the staff. May lead to graduation with Departmental Honors.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Dance

Department of Dramatic Arts and Dance; Miss Graham, Career Adviser

See *Dramatic Arts and Dance* for a statement of the departmental goals and program.

Requirements for the Major

In Major Subject: 37 credits in Dance courses including two years (eight credits) of Ballet and two years (eight credits) of Modern Dance, 311, 331, 332, 431, 432 and six credits chosen from 350, 351, or 352.

121, 122—Beginning Ballet (1, 1)
For students satisfying the physical education requirement. May be taken only S/U.

123, 124—Beginning Modern Dance (1, 1)
For students satisfying the physical education requirement. May be taken only S/U.

221, 222—Advanced Beginning Ballet (2, 2)
Ballet as a discipline, emphasizing exactness and precision of line, creative expression, and historical reference. Performance courses continue with 321, 322 and 421, 422.

223, 224—Advanced Beginning Modern Dance (2, 2)
Study of the various techniques emphasizing alignment, strength, flexibility, and the aesthetics elements of dance. Performance courses continue with 323, 324 and 423, 424.

235—Movement for the Theatre (3)
Creative projects in theatrical movement; mime, gesture, space, rhythm, and expression. Spring 1984.

241, 242—Advanced Beginning Jazz
Study of jazz dance techniques and exploration of movement as related to jazz music. Performance courses continue with 341, 342 and 441, 442.

260S, 261S—Dance Workshop (1-3 each)
Summer program covering Ballet, Character, Modern Dance, Jazz and performance. Credits variable.

311—Analysis of Dance Techniques (3)
Comparison of selected dance techniques according to anatomical and kinesthetic principles. Spring 1983.

321, 322—Intermediate Ballet (2, 2)

323, 324—Intermediate Modern Dance (2, 2)

331—Compositional Forms (3)
Structure of dance movement, phrases, rhythm, and traditional dance forms.

332—Dance Styles (3)
Dance related to historical periods in art, drama, and music, utilizing reading, research, films, improvisation, and composition.

341, 342—Intermediate Jazz (2, 2)

350—Dance History Survey (3)
Dance from the earliest times—Primitive, Greek, Roman, Egyptian, European, Oriental, and Spanish, to the 15th century.

351—History of Ballet (3)
In-depth study of ballet in France, Italy, Russia, and England from the 15th century to the 20th century. Fall 1983.

352—American Dance Heritage (3)
Readings and research in American dance, including the Indian, Negro, Modern Dance, and Jazz. Spring 1984.

353—Ethnic Dance (3)
Prerequisites: Dance 122, 124. The study of the history and culture of Western and Eastern countries through dance. Performance of selected dances. Fall 1984.

400—Mary Washington Dance Company (1)
Performance in the Dance Company. Admission by audition. May be repeated for credit.

421, 422—Advanced Ballet (2, 2)

423, 424—Advanced Modern Dance (2, 2)

425—Classical Ballet Variations (3)
Prerequisite: Dance 321, 322, 421, 422 or permission of instructor. Theory and practice of solo variations in traditional classical ballets. Spring 1983.

431, 432—Choreography (3, 3)
Prerequisites: Dance 331, 332, Drama 241 or permission of instructor. Creation and production of choreographic projects.

441, 442—Advanced Jazz (2, 2)

450—Seminar in Dance (3)
Readings and research in contemporary dance in education, dance therapy, aesthetics and philosophy.

451, 452—Special Studies in Dance (1-3 each)
Concentration on a single area of dance. Topics vary from year to year.

491, 492—Individual Study (1-3 each)
Research, choreography, or composition of an approved creative project. By permission of the Department.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Dramatic Arts

Department of Dramatic Arts and Dance; Mr. Kenvin, Career Adviser

See *Dramatic Arts and Dance* for a statement of the departmental goals and program.

Requirements for the Major

In Major Subject: 38 credits in Dramatic Arts courses, including 131, 132, 211, 212, 221, 222, 361, 362, 431, and 432. Majors must also work in some capacity on all productions of the department.

131, 132—Stagecraft (4, 4)
Theories and techniques of designing, building, and painting stage settings; organization and operation of production crews. Laboratory.

211, 212—World Drama (3, 3)
The reading and discussion of selected plays and of theatrical developments as an introduction to the theatre.

221, 222—Acting (3, 3)
Voice and body training, pantomime, improvisation, creating character, ensemble playing.

240—Stage Makeup (3)
Study and practice in the techniques and styles of stage makeup for theatre and dance. Fall 1983.

241—Dance Production (3)
Theories and techniques of dance production involving management, budget, sound and music, production design, rehearsal and performance. Course work supplemented with practical production work. Fall 1983.

250S, 251S—Fredericksburg Theater Company (3, 3)
Apprenticeship, including acting and technical work, in the Fredericksburg Theater Company during the summer.

331, 332—Playwriting (3, 3)
Writing for the stage. Exercises and practice in the structure of action, character development, dialogue, critical analysis. Fall 1983.

341—Stage Costuming (3)
History and basic principles of costume design, use of historic period, silhouettes, stylization, color, and construction to create and enhance the theatrical illusion. Laboratory. Spring 1984.

361, 362—History of the Theatre (3, 3)
Theatres, production methods, dramatic conventions, key figures from the Greek period to the present in the Western world. 1982-83.

371—Oriental Theatre (3)
Indian, Japanese, Chinese theatre. Spring 1984.

381—Film Analysis (3)
Viewing and analysis of selected films. Fall 1982.

391, 392, 393, 394—Theatre Practicum (1-2 each)
Prerequisites: for technical work, Dramatic Arts 131, 132; for acting, Dramatic Arts 221, 222. Prerequisites may be taken concurrently or equivalent experience may be substituted. By permission of the Department. Theatre Practicum awards credit for performance or production work on major productions of the department. Students may count only 8 credits in a 122-hour program.

421, 422—Acting Styles and Scene Study (3, 3)
Prerequisites: Dramatic Arts 221, 222. Problems in acting. Creating and sustaining a character. Period styles. 1983-84.

431, 432—Directing (3, 3)
Technique and practice of directing for the stage.

433—Stage Lighting (3)
Prerequisites: Dramatic Arts 131, 132. Theories and techniques of lighting stage productions; lighting instruments and equipment. Fall 1982.

434—Scene Design (3)
Prerequisites: Dramatic Arts 131, 132. History, theory, and design of stage scenery, use of architecture, art, ornament with the elements of design. Spring 1983.

441—Dramatic Theory and Criticism (3)
Analysis of dramatic criticism from Aristotle to the present. Spring 1983.

443—Children's Theatre (3)
Staging and production of plays for children. Fall 1982.

451, 452—Special Studies in Dramatic Arts (3, 3)
Concentration on a single area of dramatic arts. Topics vary from year to year.

461—Seminar in Contemporary Theatre (3)
Readings, presentations, and projects in contemporary theatre.

491, 492—Individual Study (1-3 each)
Individual study under direction of a member of the Department. By permission of the Department.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Dramatic Arts and Dance

Department of Dramatic Arts and Dance; Mr. Kenvin, Career Adviser

The Department offers majors in three areas: Dramatic Arts, Dance, and Performing Arts. These provide programs on which students can build further professional or graduate work, or which may be useful simply as ends in themselves. Techniques, theories, history, and literature are included in all major programs in the department. Performing Arts is designed especially for those wishing to divide their time between Dance and Dramatic Arts.

Important in the program is the variety of courses available to students. Also important are the many opportunities students have to perform in either dance or theatre and to work on productions, learning different phases of the theatrical art. The student-run Tri-Muse Society encourages students interested in dramatic arts and dance, and there is a chapter of Alpha Psi Omega, a dramatics honorary society.

The department's major drama productions are presented in the 285-seat Klein Memorial Theatre in duPont Hall. Recent productions have included *Godspell, The Tempest, Peer Gynt, The Good Doctor, Miss Julie* and *Vanities.* The department's summer program in conjunction with the Fredericksburg Theater Company has presented such productions as *The Miser, The Mousetrap,* and *South Pacific.* Students may apprentice in this program as part of their work at the college. The Mary Washington College Dance Company, a vital part of campus cultural life, presents performances of modern dance and ballet in the 1700-seat Dodd Auditorium in George Washington Hall. Auditions are held annually for the Dance Company.

Lectures and performances by visiting scholars and artists enrich the program. In recent years, the campus has hosted such artists as Agnes de Mille, Paul Taylor, Ellen Stewart, Richard Schechner, Maria Swoboda, Mathews-Masters Dance Company, Lewis Scheeder, and Bart Whiteman.

Economics

Department of Economics, Business and Public Affairs; Mr. Rycroft, Career Adviser

Economics has been defined as what economists do. A more precise definition may not be possible. The discipline is as broad as it is exciting. Inflation, unemployment, the energy crisis, poverty, discrimination, growth and development, and the proper role of government in society are only a sample of the issues with which economists deal.

The Department offers courses in the following areas: economic theory, quantitative economics, government finance, economic development, comparative systems, labor economics, history of economic thought, urban economics, antitrust, corporate finance, international trade, money and banking, and investment analysis.

Requirements for the Major

In Major Subject: Economics 201, 202 and 33 credits in upper-level economics courses, including 371, 372, either 361 or Statistics 200, and 362.

N.B. Courses in both Economics and Business Administration will be included in calculating the 55 credit maximum in the discipline. Economics majors may not double major with Business or Public Administration.

101—Elements of Economics (3)
One semester survey of the basic elements of economic theory. Students receiving credit for Principles may not receive credit for Elements.

200—Consumer Economics (3)
A survey of business and economics problems confronting consumers. Major areas covered will be: banking, real estate, insurance, budgeting, securities and estate planning. Majors may not receive credit for this course.

201—Principles of Economics: Macroeconomics (3)
Basic principles of national income determination.

202—Principles of Economics: Microeconomics (3)
Basic Principles of production, exchange, distribution and consumption of goods and services.

Economics 201 and 202 are prerequisites for all 300- and 400-level Economics courses.

301—The Economics of National Issues (3)
In-depth analysis of contemporary economic problems in American society.

310—Corporate Finance (3)
Financial policies of corporations.

311—Economics of American Industry (3)
Application of microeconomic analysis to the problems of business organization.

312—Government and Business (3)
A survey of all aspects of government interactions with the business community covering such topics as anti-trust, regulatory agencies, tariffs, etc.

315—Investment Analysis (3)
Introduction to portfolio theory and the use of both technical (mathematical) and fundamental (economic) analysis in evaluating investment alternatives.

321—Money and Banking (3)
The nature and functions of money, banking organization and practices, and the role of the monetary sector in the determination of income and employment.

341—Government Finance (3)
An analysis of the appropriate role of government in the allocation of resources.

351—Labor Market Analysis (3)
Analysis of the operation of labor markets. Topics include: human capital theory, economics of education, discrimination, poverty, labor market policy and the economic effects of unions.

352—Comparative Labor Movements (3)
History and development of the organized labor movement in selected countries. Discussion of selected current issues regarding the relationship of the labor movement to the economy and worker.

361—Introductory Econometrics (3)
A basic introduction to probability and statistics and regression analysis and their use in economics.

362—Quantitative Methods (3)
Prerequisite: Economics 361 or Statistics 200. Single and multiple equation regression models. Problems in regression analysis. Linear programming.

371—Microeconomics (3)
A systematic study of the role of the price system in organizing economic activity and an evaluation of its effectiveness.

372—Macroeconomics (3)
Analysis of the determination of national income, employment and the price level. Discussion of consumption, investment, inflation and fiscal and monetary policy.

381—Urban Economics (3)
An economic analysis of contemporary urban problems including structure and growth, housing, transportation, fiscal issues, urban markets, and central city and ghetto development.

391—Comparative Economic Systems (3)
A comparative analysis of economic systems. Emphasis will be given to theoretical models of economy structure and performance, as well as in-depth analysis of selected countries.

392—Economic Development (3)
An introduction to the economic characteristics and problems of less-developed countries and to theories and policies applicable to the developing country.

401—International Economics (3)
An introduction to international trade; the balance of payments, and related issues of foreign economic policy.

410—Environmental and Resource Economics (3)
The application of economic methods to the analysis of environmental issues. Topics will include natural resource economics and public policy.

421—Economics of Health (3)
A survey of market behavior, institutions, and public policy in the provision of health services.

441—History of Economic Thought (3)
A survey of economic analysis from Grecian antiquity to the 20th century, concentrating on the 18th and 19th centuries.

442—American Economic Development (3)
The study of factors contributing to the economic development of the United States, including the historical growth of economic institutions such as agriculture, banking, labor unions, and manufacturing.

461—Mathematical Economics (3)
Prerequisites: Economics 371, 372; Mathematics 221. Linear algebra, comparative statics, optimization, differential equations, nonlinear programming.

471—Economics Seminar (3)
Special topics of interest to staff and students will be discussed in seminar.

491—Individual Study in Economics (3)
Directed individual research on an approved problem in economics.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Education

Department of Education; Mr. Slayton, Career Adviser

The role of the Department of Education is to help students develop the competencies necessary for successful teaching in elementary or secondary schools. Consequently, the Department functions as a service department offering, as electives, courses designed to prepare the liberal arts student to meet requirements for certification as a teacher.

The teacher education programs at the College are approved by the Virginia State Department of Education and the National Association of State Directors of Teacher Education and Certification. The Mary Washington College student completing an approved program is eligible for certification in any of the more than 30 states signatory to the Teacher Certification Reciprocation Agreement.

Course sequences offered by the Department enable students to prepare to teach in nursery, kindergarten, and primary school

(grades N, K, 1, 2, 3); in intermediate school (grades 4-7); in art and music (grades K-12); and in each of the following secondary school endorsement areas (grades 8-12): biology, chemistry, dramatics, earth science, economics, English, French, general science, geography, German, history, journalism, Latin, mathematics, physics, political science, social sciences, sociology, and Spanish.

In addition to full preparation for teaching, a Mary Washington College student may complete a foundation program which, with additional study at the graduate level, can provide entry into such professional specializations as special education, educational psychology, school administration, instructional supervision, and guidance and counseling.

Elementary Certification Programs: Nursery School, Kindergarten to Grade Three and Grades Four Through Seven

202—Teaching the Very Young Child (3)
A practical orientation to the behavior and needs of preschool children in educational settings. Includes children, infancy through age four. Field experience required. Spring 1983.

205—Children's Literature (K-3) (4-7) (3)
A survey of children's literature with emphasis on fostering creativity and facilitating the language arts.

312—Teaching in the Elementary School (4-7) (3)
Objectives, practices and materials of the intermediate school. Emphasizes teaching subject disciplines, classroom management, and evaluating pupil progress. Field experience required.

332—Growth and Development of the Young Child (K-3) (4-7) (3)
Prerequisite: Psychology 331. Physical, social, emotional, and intellectual development, birth through age eight. The effect of social forces on the behavior of the child. Field experience required.

349—Physical Education for the Elementary Teacher (K-3) (4-7) (3)
Movement skills for children; includes movement exploration, creative rhythms, folk dance, games, and self-teaching for physical fitness.

359—Music for the Elementary Teacher (K-3) (4-7) (3)
Objectives and processes of teaching music in the elementary grades. Fall semester only.

369—Art for the Elementary Teacher (K-3) (4-7) (3)
Objectives and processes of teaching art in the elementary school. Not offered Fall semesters of odd numbered years.

379—Developmental Reading (K-3) (4-7) (3)
An overview of the reading process, including theoretical bases and instructional practices. Field experience required.

380—Diagnostic Reading (K-3) (4-7) (4)
Prerequisite: Education 379 or permission of instructor. A survey of reading problems, informal and formal diagnostic instruments, and instructional procedures. A formal practicum is required.

402—Teaching in the Kindergarten-Primary Grades (K-3) (3)
Principles, practices, and materials of kindergarten-primary school programs. Emphasizes teaching from a developmental point-of-view of the child. Field experience required.

414—Teaching Mathematics and Science in the Elementary School (K-3) (4-7) (3)
Objectives, practices, and materials of elementary mathematics and science programs; emphasis on conceptual learning.

Secondary Endorsement Programs: Teaching the Disciplines, Grades Eight Through Twelve (Art, Music: Kindergarten Through Grade Twelve)

310—Reading in the Content Areas (3)
Practices, principles, and materials for teaching reading concomitantly with the subject discipline. Field experience required.

317—Teaching Music in the School: Instrumental (3)
The objectives and processes of teaching music; emphasis on music reading, conceptual learning, curriculum, and evaluation. (For music majors). Field experience required. Fall semesters only.

318—Teaching Music in the School: Choral
Music management in the secondary school, history and philosophy of music education, curriculum, and current trends. (For music majors). Field experience required. Spring semesters only.

319—Teaching Foreign Language (3)
The objectives, practices, and materials of teaching modern and classical languages in the secondary school. Field experience required. Fall semesters only.

320—Teaching Art (3)
The objectives, practices, and materials of teaching art in elementary and secondary schools. (For art majors). Field experience required. Fall semesters, even numbered years.

321—Teaching Mathematics (3)
The objectives, practices, and materials of teaching mathematics in the secondary school. Field experience required. Fall semesters only.

322—Teaching Social Sciences (3)
The objectives, practices, and materials of teaching a social science discipline in the secondary school. Field experience required. Fall semesters only.

323—Teaching Sciences (3)
The objectives, practices, and materials of teaching a science discipline in the secondary school. Field experience required. Fall semesters only.

324—Teaching English/Drama (3)
The objectives, practices and materials of teaching English and/or drama in the secondary school. Field experience required. Spring semester only.

420—Foundations of Teaching in the Secondary School (3)
The affective curriculum viewed from social-psychological perspectives: practical techniques for improving the teaching/learning environment are explored.

All Certification Programs

440—Supervised Teaching (9)
Prerequisite: Approval of major adviser and Department of Education. Orientation to teaching under direction of cooperating teachers in public elementary and secondary schools.

441, 442, 443—Supervision Seminar for Cooperating Teachers (2 each)
Prerequisite: Selection to serve as a cooperating teacher. A sequence of seminars in educational supervision available only to classroom teachers serving as cooperating teachers to Mary Washington College student teachers.

471—Special Topics in Education (1-6)
Specific subject content to be determined with participating school divisions.

English

Department of English, Linguistics, and Speech; Mr. Mitchell, Career Adviser

The Department's programs permit majoring in English with a concentration in either literature or writing. Requirements insure familiarity with both the language itself and with literary history, while choices within each major program allow a good deal of individual focusing. Introductory courses, numbered below 300, provide experience in exact reading and shapely writing. The main body of courses, numbered from 300 to 399, offers chances to do more sophisticated writing, and to explore bodies of literature defined by period, genre, or theme. Seminars, individual study, and internships, numbered from 400 to 499, offer intense, highly individualized study to complement the lectures and discussions through which our other courses operate. All classes are small, and a number of other activities, such as the Poetry Reading Series, bring professors and students together informally. While the Department has no ideology, we are devoted to witty and elegant expression, rigorous thought, mastery of detail, and intellectual honesty. Many students combine studying literature or writing with majors in other disciplines. About 30% of our majors also certify for elementary or secondary teaching. Others go on to graduate or professional school. Still others take jobs in everything from the genuinely exotic, through the infinite shadings of journalism and public relations, to government and business. The specific skill nourished by majoring in English which employers value most is exact writing; but like all humane disciplines, English teaches complexity of thought and subtlety of feeling. What binds all English majors is joy in the language and love for its literature.

Requirements for the Major

Literature Concentration

In Major Subject: English 233; 27 credits in upper level English courses including 3 courses concentrating on literature written before 1800, and 2 seminars.

In Other Subjects: Linguistics 101 and 305.

Writing Concentration

In Major Subject: One course from English 200, 201, 231, 232, 233; 27 additional credits in upper-level writing and literature courses to fit the following patterns:

(1) at least 6 credits of 300-level writing courses;
(2) at least 12 credits of upper-level literature courses;
(3) at least 6 credits of 400-level courses;
(4) at least 6 credits in courses concentrating on literature written before 1800.

In Other Subjects: Linguistics 101 and 305.

101—Writing Workshop (3)
Group and tutorial instruction in the fundamental techniques of expository and argumentative writing: organization, development, coherence, research methods, mechanics.

200—Newsgathering (3)
An introduction to the techniques of newsgathering, including practice in interviewing, beat reporting, and covering various kinds of news events.

201—Advanced Composition (3)
Development of flexible and effective expository prose through analysis of models and practice with styles and techniques.

211—Survey of English Literature I (3)
Literary movements and types from Beowulf through the 18th century.

212—Survey of English Literature II (3)
Literary movements and types from the Romantic movement to the present.

221—Survey of American Literature I (3)
American backgrounds and literary movements and types from the colonial writers through Whitman.

222—Survey of American Literature II (3)
American backgrounds and literary movements and types from Dickinson to the present.

231—Short Fiction (3)
Study of selected short stories and short novels.

232—The Novel (3)
Study of the form, content, and development of selected novels.

233—Poetry (3)
Close analysis of poetic form and content.

234—Shakespeare (3)
Shakespeare's achievement in selected plays and poems.

235—Tragedy (3)
Tragedy as form and idea reflected in selected literary and dramatic works of world literature.

236—Comedy (3)
Comic conventions in selected works of world literature.

241—Fantasy in Literature (3)
Themes, techniques, and structures in selections from the literature of fantasy.

242—Myth in Literature (3)
Study of myth—cultural, natural, Christian, and classical—in selected literary works.

243—Women in Literature (3)
Study of literature by women and about women.

244—Narrative Form in Fiction and Film (3)
Study of parallel narratives in novels and fiction films, to see how the medium of telling affects the story told.

251—Issues in Literature (3)
Significant literary figures, movements, and topics. Consult schedule of courses for specific topic.

300—Principles of Newspaper Writing (3)
Prerequisite: English 200 or permission of the instructor. Practice in writing, reporting, editing, and laying out various kinds of news stories. Spring 1983.

301—Principles of Magazine Writing (3)
Prerequisite: English 200 or permission of the instructor. Practice in writing and laying out various kinds of magazine articles, with emphasis on feature writing. Spring 1984.

302, 303—Creative Writing I and II (3, 3)
Prerequisite for 302: English 231 or 232 or 233 or permission of the instructor. A workshop devoted to writing fiction and poetry. Primary emphasis on developing student abilities to write creatively, with periodic attention to examples from established writers. Only in sequence.

304—Studies in Prose Style (3)
Prerequisite: English 201 or permission of the instructor. Introduction to the varieties of English prose. Analysis and imitation of historical models, from Bacon to Updike. Examination and practice of critical prose techniques, from the modes of academic criticism to those of popular reviewing. Linguistic analysis of style. Fall 1982.

309—Chaucer and His Age (3)
Primarily Chaucer's *Canterbury Tales*, with some attention given to other lyric, heroic, or romance narratives of medieval England. Fall 1983.

315—English Drama Through the Restoration (3)
Origins and development of English drama through the Restoration. Includes miracle and morality plays, and Elizabethan, Jacobean and Restoration drama. Spring 1984.

316—Renaissance and Baroque Literature (3)
English nondramatic literature of the 16th and 17th centuries. Emphasizes Sidney, Spenser, Donne, Jonson, and Milton. Fall 1982.

319—Shakespeare: The Early Plays (3)
Shakespeare's early development, focusing mainly on the comedies and history plays.

320—Shakespeare: The Later Plays (3)
Shakespeare's later development, focusing on the tragedies, problem plays, and final romances.

325—The Age of Neoclassicism (3)
English literature during the Restoration and the early 18th century, with emphasis on the revival of classical aesthetics and forms. Fall 1982.

326—The Age of Sense and Sensibility (3)
English literature during the second half of the 18th century, with emphasis on the transition from Neoclassicism to Romanticism. Spring 1983.

333—The British Novel to 1945 (3)
Growth of the English novel from its origins to the Second World War. Fall 1983.

334—The American Novel to 1945 (3)
Growth of the American novel from its origins to the Second World War. Spring 1983.

335—English Romanticism: Wordsworth to Keats (3)
English literature of the early 19th century, concentrating on five great Romantic poets: Wordsworth, Coleridge, Byron, Shelley, and Keats. Fall 1983.

336—Victorian Literature (3)
English literature from 1830 to 1900, emphasizing the poetry of Tennyson and Browning and the novels of Dickens.

355—American Romanticism (3)
Literary romanticism in 19th century American prose and poetry. Includes Hawthorne, Melville, Thoreau, Whitman, and Dickinson.

356—American Realism (3)
Literary realism in American prose and poetry of the 19th and early 20th centuries. Includes James, Dreiser, Twain, and others.

365—Modern Literature (Emphasis Drama) (3)
Origins and development of major concerns and themes in the early modern period. Includes chiefly British and American writers.

366—Modern Literature (Emphasis Poetry) (3)
Explorations of modern themes and techniques in the works of major modern writers, chiefly British and American.

369—Contemporary European Fiction (3)
Major European writers of the 20th century and their reflection of literary, political, social, philosophical, and psychological developments. Fall 1982.

370—Contemporary Poetry and Drama (3)
Contemporary poetry and drama, primarily British and American. Spring 1983.

373—Contemporary British and American Fiction (3)
Fiction in Britain and America since the Second World War. Fall 1983.

375, 376—Special Studies (3, 3)
Studies in significant literary figures, movements, and topics. Consult schedule of courses for specific topic.

411—Studies in Drama (3)
Major problems, themes, movements, or figures in drama. Consult schedule of courses for specific topic.

413—Studies in Poetry (3)
Major problems, themes, movements, or figures in poetry. Consult schedule of courses for specific topic.

415—Studies in the Novel (3)
Major problems, themes, movements, or figures in the novel. Consult schedule of courses for specific topic.

445—Studies in English Literature to 1600 (3)
Significant figures, movements, themes, or problems in English literature to 1600. Consult schedule of courses for specific topic.

447—Studies in English Literature, 1600-1800 (3)
Significant figures, movements, themes, or problems in English literature, 1600-1800. Consult schedule of courses for specific topic.

449—Studies in English Literature, 1800-Present (3)
Significant figures, movements, themes, or problems in English literature, 1800 to the present. Consult schedule of courses for specific topic.

455—Studies in American Literature to 1900 (3)
Significant figures, movements, themes, or problems in American literature through the 19th century. Consult schedule of courses for specific topic.

457—Studies in American Literature, 1900-Present (3)
Significant figures, movements, themes, or problems in American literature of the 20th century. Consult schedule of courses for specific topic.

465—Major Seminar (3)
Literature as a discipline. Topics include literary history, textual criticism, contemporary prose styles, and use of linguistics and computer techniques.

491, 492—Individual Study (3, 3)
Individual study under the direction of a member of the staff. By permission of the Department.

495—Individual Study in Creative Writing (3)
Prerequisites: English 302, 303. Individual study under the direction of a member of the staff. By permission of the Department.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Environmental Earth Sciences

Department of Biological Sciences; Mr. Bass, Career Adviser

The Environmental Earth Sciences major is designed to promote the study of the linkage between mankind and the environment. The scope of this major necessitates specialization in one of two areas; students may elect to emphasize the natural science or the social science aspects. The natural science concentration will provide a background in biology, chemistry, and geology. The analytical skills available in this program of study, coupled with an appreciation for socioeconomic considerations, will prepare the student to evaluate environmental problems and work on solutions taking into consideration the limits of societal resources. The social sciences concentration focuses on the economic, political and sociological aspects of modern man. Study of the impact of mankind on the environment and the repercussions therefrom, coupled with an appreciation of the biotic and physical parameters of the environment, will prepare the student to evaluate government, industry, and environmentalist positions on environmental issues.

Environmental legislation and the Environmental Protection Agency regulations have produced an increased demand by both industry and all levels of government for personnel who are trained in the environmental sciences. These programs of study will provide a strong background for advanced study or allow placement directly in a variety of career areas, depending on the individual course of study.

Requirements for the Major

N.B. Students expecting to major in Environmental Earth Sciences should take the following courses as basic requirements or electives because they are prerequisite to courses in the major program: Biology 121, 122, Chemistry 111, 112 or 105, 106; Economics 201, 202.

Core Courses: Environmental Earth Sciences 101, 460; Biology 311 or 322; Chemistry 205, 252 or 211; Economics 410; Geography 375; Geology 101 or 102; Sociology 311 or Geography 275.

Required Groupings: 14-16 credits from courses in one of the following groupings to form an approved, cohesive program. (No more than three courses may be taken in any one discipline):

A. Natural Environmental Studies: Biology 311, 312, 322, 342, 361, 363, 371, 422S; Chemistry 205, 211, 212, 252, 317, 318, 319, 320, 333; Geography 340, 350, 370; Geology 101, 102, 301, 402, 411; Environmental Earth Sciences 481, 491, 499.

B. Social Environmental Sciences: Anthropology 102; Economics 301; Geography, 235, 275, 340, 350; Political Science 332; Public Administration 311, 312, 402; Sociology 311, 313; Environmental Earth Sciences 481, 491, 499.

Recommended: Computer Science 101; Geography 213; Mathematics 121; Physics 201, 202; Statistics 200; Courses in A or B above.

101—Introduction to Environmental Earth Sciences (1)
Mankind and the environment as viewed from the social and natural sciences.

460—Environmental Earth Sciences Seminar (2)
Multidisciplinary evaluation of environmental problems. Senior level seminar for Environmental Earth Sciences majors; others by permission of the instructor. Spring 1983.

481—Readings in the Environmental Earth Sciences (2)
Readings in Environmental Earth Sciences literature selected by the student, who is guided by a staff member. Open to junior and senior majors by permission of the Department.

491—Special Problems in the Environmental Earth Sciences (3) or (4 for Honors)
Prerequisite: Environmental Earth Sciences 481. Individual investigation supervised by a staff member. Open to junior and senior majors with permission of the Department.

499—Internship
Prerequisite: junior or senior major in good academic standing with appropriate background. Supervised off-campus experience, developed in consultation with the Department. Credits variable.

French

Department of Modern Foreign Languages; Mrs. Blessing, Career Adviser

See *Modern Foreign Languages* for statement of departmental goals and program.

Requirements for the Major

Option A (Language and Literature): 30 credits in French courses beyond 201-202, including 291, 292, 321, 322, 391, 392, 481 and 9 in other literature courses.

Option B (Language and Civilization): 36 credits in French and related courses beyond 201-202, including 291, 292, 293, 300, 315, 321, 322, 391, 392, 481, 3 in one other literature course and 3 in History 353, 354, Political Science 321, 322 or Economics 401.

101-102—Beginning French (3, 3)
Grammar, composition, conversation, reading, laboratory use.

201-202—Intermediate French (3, 3)
Grammar review, reading, oral work.

291, 292—Studies in Language I (3, 3)
Grammar, composition, conversation.

293—Business French (3)
Prerequisites: French 291, 292. Especially designed for those who may be connected with businesses dealing in France or French-speaking countries. Fall 1983.

300—French Phonetics (3)
Prerequisites: French 201-202. Recommended for French majors and prospective teachers of French. Fall 1982.

315—French Civilization (3)
Geography, history and the social, political and cultural background of France and the French people. Spring 1983.

321, 322—Introduction to French Literature (3, 3)
A thematic approach to French literature through selected works of the 17th-20th centuries.

341—Literature of the Middle Ages and Renaissance (3)
Prerequisites: French 321, 322. French literature from its beginning through the 16th century starting with the *Chanson de Roland* and ending with Montaigne. Not offered 1982-84.

351—Seventeenth Century Literature (3)
Prerequisites: French 321, 322. Corneille, Molière, Racine, and other representative works. Spring 1984.

361—Eighteenth Century Literature (3)
Prerequisites: French 321, 322. Fiction, drama, and philosophy. Spring 1983.

371—Novel of the Nineteenth Century (3)
Prerequisites: French 321, 322. Balzac, Flaubert, Stendhal and Zola and short stories. Spring 1984.

372—Nineteenth Century Poetry and Theater (3)
Prerequisites: French 321, 322. Lamartine, Hugo, de Musset, and Dumas. Fall 1983.

381—The Novel of the Twentieth Century (3)
Prerequisites: French 321, 322. Proust, Gide, Mauriac, and Malraux. Spring 1983.

382—Twentieth Century Theater (3)
Prerequisites: French 321, 322. Claudel, Sartre, Anouilh, Giraudoux, and Beckett. Fall 1982.

391, 392—Studies in Language II (3, 3)
Prerequisites: French 291, 292. Advanced grammar, composition, conversation. Required of majors.

481—Senior Seminar (3)
Selected topics. Required of senior majors. Offered every fall semester.

491, 492—Individual Study (3, 3)
Intensive study of one or more authors selected by student in consultation with adviser. By permission of the Department.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Geography

Department of Anthropology, Geography and Sociology; Mr. Gouger, Career Adviser.

Geography, the study of place, is concerned with identifying and explaining the distribution and interrelationships of physical and cultural phenomena. Patterns of spatial arrangement are analyzed according to the attributes of location, extent, density, and succession. Because of its breadth—examining mankind, his works, and his environment—the discipline of Geography bridges the physical and social sciences. Thus, the study of Geography embraces the spirit and purpose of a liberal education.

The Geography program at Mary Washington College stresses a traditional approach to the discipline, introducing students to analytic techniques applicable to a wide range of spatially-related questions. The Geography major prepares students for abundant career opportunities in government and private industry as well as for graduate studies in geography, planning, and a variety of other disciplines. Recent graduates have begun careers as cartographers, urban and regional planners, map curators, intelligence officers, geographic editors, industrial location and transportation analysts, and resource and land managers. Facilities for geographic studies at Mary Washington are excellent and include outstanding map and air photo collections and a well-equipped cartography laboratory.

Requirements for the Major

In Major Subject: 36 credits in Geography courses, which should include at least two each of physical, regional, systematic, and technical courses. Up to 6 credits in Geology may be substituted for physical geography courses.

101—World Regional Geography (3)
Analysis of geographic patterns in the distribution of physical and cultural phenomena in the major regions of the world.

201—Introduction to Cultural Geography (3)
Concepts, themes, and methods of cultural geography presented within an evolutionary framework which stresses German, French, English, Russian, and American schools of geographic thought.

202—Introduction to Physical Geography (3)
An introduction to the varied processes which act on and produce the spatial patterns of physical features on and near the surface of the earth.

221—Geography of Eastern Anglo-America (3)
Regional geography of the eastern United States and Canada, stressing differences in land, landscape, life, and livelihood.

222—Geography of Western Anglo-America (3)
Regional geography of the western United States and Canada, stressing differences in land, landscape, life, and livelihood.

230—Introduction to Economic Geography (3)
Distribution, description, and analysis of traditional economic systems, their spatial and environmental frameworks, and their roles in the modern world.

235—Introduction to Urban Geography (3)
Origin and diffusion of pre-industrial cities; their environmental settings, urban ecology, functions, and morphology in both Old and New Worlds.

275—Human Environment: Perception and Utilization (3)
Human ecology, environmental quality, pollution, resource utilization, conservation, and man's role in changing the face of the earth.

301—Geography of Middle America and the Caribbean (3)
Regional Geography of the lands and peoples of Middle America and the Caribbean; particular emphasis on the historical development of distinct geographic regions.

302—Geography of South America (3)
Regional geography of the lands and peoples of South America, with particular emphasis on historical geography and the development of distinct geographic regions.

303—Geography of Europe (3)
Climate, surface features, natural resources, population, agriculture, industry, and trade of the European continent.

304—Geography of the Middle East and North Africa (3)
A study of the arid-land countries of the Middle East and North Africa, focusing on the landscape, economy, life, and livelihood.

305—Geography of Sub-Saharan Africa (3)
A study of Africa south of the Sahara, focusing on landscape, economy, life, and livelihood.

306—Geography of South and Southeast Asia (3)
Environment, landscape, and livelihood of the Indian subcontinent and mainland and insular Southeast Asia, with special reference to tropical and subtropical monsoon regions. Spring 1984.

307—Geography of East and Central Asia (3)
Environment, landscape, and livelihood of China, Mongolia, the Korean Peninsula, Japan, and the Treaty Ports. Spring 1983.

308—Geography of the Soviet Union (3)
Landforms, climate, boundaries, trade, resources, people, and cultural groupings of the Soviet Union.

320—Geographical Influences on History (3)
Influences of man's physical environment on history, with emphasis on American history.

321—Political Geography (3)
Study of geographic factors in world power and international affairs.

330—Introduction to Planning (3)
Study of the basic concepts, laws, and methods used in city and regional planning.

340—Interpretation of Maps and Aerial Photographs (4)
Prerequisites: Geography 221 and 222 or permission of the instructor. Geographic interpretation of large-scale maps and aerial photographs, with emphasis on their use as research tools in Geography.

350—Cartography I (4)
Prerequisite: Geography 340 (may be taken concurrently) or permission of instructor. Introduction to basic cartographic methods; analysis of cartographic problems with exercises in techniques of graphic presentation.

351—Cartography II (4)
Prerequisite: Geography 350. Introduction to negative-scribing and the use of stable-base media; exercises in the construction of cartograms and physiographic mapping.

360—Geographic Study Abroad (variable 1-6)
A course conducted in a selected area abroad which combines lecture, observation, and travel. (Summer session only.)

370—Geomorphology (3)
Prerequisite: Geography 202 or Geology 101 or permission of instructor; Geography 340 is strongly recommended. Origin and development of landforms and their relation to underlying structure, process and time.

375—Weather and Climate (3)
Prerequisite: Geography 202 or permission of instructor. Analysis of weather processes; distribution of climate regions; impact of climate upon man and nature.

410—Selected Topics in Geography (variable 1-3)
Lecture or seminar class dealing with a preselected topic of current interest. (May be repeated for credit with change of topic.)

422—Historical Geography of North America (3)
Geography of selected regions of North America during designated periods of history.

430—Advanced Economic Geography (3)
Theoretical approaches to location of economic activity, spatial models of economic systems; regional economic organization.

435—Advanced Urban Geography (3)
Post-industrial cities; an intensive view of their urban structure, internal and external spatial relationships, and city-systems.

460—Field Methods in Geography (3)
Methods of obtaining information, mapping, and preparation of reports and illustrative materials based on field research experience. (Summer session 1983.)

461—Geographical Fieldwork (3)
Intensive study of a problem in physical, economic or cultural geography, conducted in an area of geographic interest. (Summer session 1983.)

480—History of Geographic Thought (3)
Prerequisite: Twenty-four credits in Geography or permission of instructor. Seminar on the development of geographic knowledge, theory, philosophy, and methods, as illustrated by the writings of representative geographers.

485—Readings in Geography (variable 1-3)
Prerequisite: Permission of the instructor. Directed readings on a selected topic in geography under the guidance of a member of the geography faculty.

491—Individual Study in Geography (variable 1-6)
Prerequisite: Permission of the instructor. Intensive individual study of some geographic problem.

492—Individual Study in Cartography (1-6)
Prerequisite: Geography 351 and permission of the instructor. Intensive individual study of some cartographic problem.

499—Internship
Prerequisite: Permission of the instructor. Supervised off-campus experience. Credits variable.

Geology

Department of Chemistry and Geology: Mr. McConnell, Career Adviser

Introductory and second-year geology courses are designed to introduce students to the basic principles and broad applications of the science. The upper level courses provide a more in-depth analysis of geological processes for students who are considering professional employment in areas such as mineral exploration and geologic mapping. With an appropriate selection of courses in mathematics and the basic sciences, graduate study may be pursued. The major program also provides the background for careers in the teaching of earth sciences.

In consultation with the career adviser the geology major may also select courses in related science fields to develop a career-focused grouping, e.g., geology geography for positions in urban and land-use planning or cartography, geology environmental earth sciences for environmental or water resources careers, and geology chemistry physics for geochemical or geophysical research or evaluation of energy and mineral resources.

The Department of Chemistry and Geology has well equipped laboratories to support and reinforce classroom instruction. Facilities are available for x-ray diffractometry, x-ray fluorescence, atomic absorption, emission spectroscopy, and thin section preparation. Field equipment includes a proton magnetometer, seismometer, surveying equipment, and altimeters. The Department possesses an extensive collection of rocks, minerals, and fossils as well as several petrographic and optical microscopes. Computer facilities are also available.

Requirements for the Major

In Major Subject: 24 credits in Geology courses, including 101, 102, 301, and 302.

In Other Subjects: 12 credits in Biology, Chemistry, Physics, Mathematics, Computer Science, Statistics, and may include one of the following: Geography 340 or 350, 370, 375.

101—Introductory Geology (4)
Recommended preparation: Mathematics 111 or equivalent. Introduction to the earth: rocks and minerals, mountain-building, structure of the earth's interior, and surface processes. Laboratory.

102—Oceanography (3)
Recommended preparation: Mathematics 111 or equivalent. The oceans, ocean floor, sediments, continental drift, tides, currents, waves, seawater, and marine resources.

201—Paleontology (3)
Prerequisites: Geology 101 and Biology 121. Plant and animal fossils and the ancient environment indicated by their presence. Laboratory.

301—Mineralogy (4)
Prerequisites or corequisites: Geology 101 and Chemistry 112 or 106. Study of minerals including an introduction to crystallography and methods of identification. Laboratory.

302—Petrology (4)
Prerequisite: Geology 301. Origin, occurrence and structure of rocks with an emphasis on identification and classification. Laboratory.

311—Sedimentation and Stratigraphy (3)
Prerequisites: Geology 101 (Geology 301 is recommended as a prerequisite or corequisite). Survey of sedimentary particles, transport processes, depositioned environments, and resulting strata. Laboratory.

402—Geochemistry (3)
Prerequisite: Geology 301 or permission of instructor. Study of distribution, migration, and abundance of the elements within the earth.

411—Soil Science (3)
Prerequisite or corequisite: Geology 301. Properties, processes, composition, classification and evolution of soils. Laboratory.

412—Structural Geology (4)
Prerequisite or corequisite: Geology 302. Analysis and interpretation of structural features of the earth's crust such as folds and faults. Laboratory.

421—Advanced Topics in Geology (2-4)
Prerequisite: Permission of instructor. Specialized topics not offered on a regular basis, e.g., Geophysics, Hydrology and Advanced Mineralogy. Laboratory included with certain topics.

491—Individual Study (1-4)
Prerequisite: Permission of instructor. Investigation of a topic which may include laboratory and literature research. Course of study determined by instructor and student.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

German

Department of Modern Foreign Languages: Mr. Merrill, Career Adviser

See *Modern Foreign Languages* for statement of departmental goals and program.

Requirements for the Major

30 credits in German including 291, 292; 321, 322; 391, 392; and four other 300-400 level German courses selected from: 315, 371, 372, 381, 382, 481, 482.

Note: A student beginning in German 101 may request special permission in order to exceed the 40 credit limit for the major.

101-102—Beginning German (3, 3)
Grammar, composition, conversation, reading, laboratory use.

201-202—Intermediate German (3, 3)
Prerequisites: German 101-102 or equivalent. Grammar review, reading, conversation.

291, 292—Studies in Language I (3, 3)
Prerequisites: German 201-202 or equivalent. Grammar, composition, conversation. 1982-83.

315, 316—German Culture and Institutions (3, 3)
Prerequisites: German 291 or 321, or equivalent. History, art, music, customs, traditions of German-speaking peoples. Offered when demand is sufficient.

321, 322—Introduction to German Literature (3, 3)
Prerequisites: German 201-202 or equivalent. A study of representative authors, genres, and literary movements in the nineteenth and twentieth centuries.

371—German Classicism (3)
Prerequisite: German 322 or equivalent. The German Hochklassik as seen in Goethe and Schiller. 1983-84.

372—German Romanticism and Post-Romanticism (3)
Prerequisite: German 322 or equivalent. Includes Eichendorff, Kleist, Novalis and Tieck. 1983-84.

381, 382—Twentieth Century Literature (3, 3)
Prerequisite: German 322 or equivalent. Includes Hofmannsthal, Mann, Rilke, Musil, Kafka, Brecht, Dürrenmatt, Frisch, Böll, Grass, Wolf. 1982-83.

391, 392—Studies in Language II (3, 3)
Prerequisite: German 292 or equivalent. Advanced grammar, composition, conversation. 1983-84.

481, 482—Seminar in German Literature (3, 3)
Prerequisite: German 322 or equivalent. Selected topics which vary from year to year. Not offered 1982-84.

491, 492—Individual Study (3)
Intensive study of one or more authors selected by the student in consultation with adviser.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Greek

Department of Classics, Philosophy, and Religion

See *Classics* for general statement of goals and program.

131-132—Elementary Greek (3, 3)
Introduction to the language of ancient Greece. Grammar and composition are stressed, leading to translation of literature. 1982-83.

133, 134—Intermediate Greek (3, 3)
Prerequisites: Greek 131-132 or equivalent. Review of grammar. Readings from Plato plus selections from other authors. 1983-84.

491, 492—Individual Study in Greek (3, 3)
Individual study under the direction of a member of the staff. By permission of the Department.

Health

Department of Health and Physical Education
See *Physical Education.*

Historic Preservation

Department of History and American Studies; Mr. Hensley, Career Adviser.

The major in historic preservation is interdisciplinary in structure, designed to acquaint the student with a broad range of preservation activities, including the identification, recovery, interpretation, conservation and restoration of the materials of history. The main purposes of the program are, first, to provide an overview of the preservation field; and, second, to establish a solid background in the academic disciplines upon which preservation activities are based.

The historic preservation program is significantly enhanced by the location of the College in Fredericksburg, amidst an area exceptionally rich in history from the Colonial, Revolutionary and Civil War periods. The student is thus able to utilize many readily-available assets in conducting field work, engaging in individual study, or developing internship opportunities. Upon completion of the major, the student will have been introduced to a variety of preservation activities—including museum, archival, architectural, and archaeological work—and will be prepared for entry-level employment or for further study at the graduate level in those areas.

Requirements for the Major

Core Courses: 30 credits in Art History 114, 115; Historic Preservation 201, 202, 301, 303, 305, 307; History 401, 402 or History 411, 412. Additional courses in historic preservation: 6 credits at the upper level, selected from among: Historic Preservation 401, 403, 405, 407, 471, 491, 499.

In Other Subjects: 12 credits selected from among: Anthropology 322; Art History 220, 310, 311, 321, 332, 341, 343, 352, 353, 360; Classics 385, 386, 401, 402; Drama 341; Economics 381; Geography 230, 235, 320, 330, 422, 430, 435, 460, 461; Geology 311; History 304, 307, 308, 311, 312, 375, 401, 402, 411, 412; Public Administration 311, 312; Philosophy 244; Sociology 311, 313.

201, 202—Introduction to Historic Preservation (3, 3)
Prerequisite: Art History 114, 115. Survey of the preservation field, with attention to historic, social, economic, political, legal and environmental issues.

301—Museum Techniques (3)
Prerequisite: Historic Preservation 201, or permission of the instructor. Study of the purposes and functions of museums and investigation of basic techniques of museum work.

303—Archival Techniques (3)
Examination of various elements of archival work, including validation, preservation, and cataloging of collections.

305—Architectural Techniques (3)
Prerequisite: Art History 114, 115, or permission of the instructor. Analysis of techniques of preservation, restoration and planning.

307—Archaeological Techniques (3)
Prerequisite: Art History 114, 115, or permission of the instructor. Study of methods of archaeological survey, excavation, analysis, recording and interpretation.

401—The Decorative Arts (3)
Prerequisite: Art History 114, 115. The study of the decorative arts within the cultural context of various historical periods. Fall 1982.

403—Industrial Archaeology (3)
Prerequisite: Historic Preservation 201. Investigation of the origins and evolution of industrial and engineering history through analysis of its physical remains. Fall 1983.

405—Research Methods in Historical Architecture (3)
Prerequisite: Historic Preservation 305 or Art History 353 or 360. Methods of documentary and physical research of historic structure through use of legal records, maps, inventories and other descriptions. Spring 1983.

407—Field Methods of Documentation in Historic Preservation (3)
Prerequisite: permission of the instructor. Emphasis on measured drawings and photographs as primary documentary methods relating to architecture, archaeology, and museum work. Spring 1984.

471—Special Studies in Historic Preservation (3)
Prerequisite: Historic Preservation 201, 202, or permission of the instructor. Seminars on selected topics of importance within the preservation field.

491—Individual Study (3)
Prerequisite: Historic Preservation 201, 202, or permission of the instructor. Individual investigation of a significant subject in historic preservation, directed by faculty member.

499—Internship
Prerequisite: Historic Preservation 201, 202 and appropriate additional course work in the major. Field experience with a preservation-related agency outside the College, supervised by a faculty member. Credits variable.

History

Department of History and American Studies; Mr. Warner, Career Adviser

The history curriculum, which is widely diversified, has several distinctive features, including a series of introductory courses which divides Western Civilization and American history into component periods, thereby allowing students to select areas of particular interest. There is a special 200-level course which focuses each semester on a different topic of current interest. The 400-level Special Studies courses, which offer a variety of topics of historical significance, provide the opportunity for the exchange of ideas within a seminar format. An internship option enhances the program by granting credit for certain history-related, career-oriented work outside the classroom.

The history major prepares the student for a variety of careers. Because the discipline requires the ability to analyze and communicate ideas as well as to retain factual information, it is an ideal preparation for law school or for a career in government, politics, or teaching. When combined with appropriate courses in other disciplines, it also provides an excellent background for a career in library or archival work; for journalism or media research; or for a business career in such areas as personnel or public relations.

Requirements for the Major

In Major Subject: 30 credits in History courses beyond the 200-level, of which at least nine must be at the 400-level including 471 and 495. At least nine credits must be taken outside the primary area of concentration.

101—Early America: 17th and 18th Centuries (3)
Discovery, exploration, settlement and expansion of the colonies; the era of the Revolution; the Confederation; establishment of the Constitution.

102—Middle America: 19th Century (3)
Development of the party system; rise of Jacksonian democracy; slavery and sectionalism; the Civil War and Reconstruction; the emergence of industrial America.

103—Modern America: 20th Century (3)
Development of the United States as a world power from 1900 to the present, with emphasis on social, economic, political and diplomatic developments.

111—Western Civilization I: Ancient Period (3)
From the origins in Mesopotamia through Classical Greece, the Hellenistic World and the Roman Republic to the decline of the Roman Empire.

112—Western Civilization II: Medieval Period (3)
From the fall of the Roman Empire to the Renaissance, with emphasis on the church, feudal institutions, medieval thought and the origins of modern national institutions.

113—Western Civilization III: Early Modern Period (3)
From the Renaissance and Reformation through the Age of Absolutism and the Enlightenment to the French Revolution and Napoleon.

114—Western Civilization IV: Modern Period (3)
From 1815 to the present, with emphasis on cultural, intellectual and political developments, the World Wars, fascism and communism.

200—Topics in History (3)
Various historical subjects are chosen according to timely interest. Specific topics are announced in semester class schedules.

301, 302—Diplomatic History of the United States (3, 3)
First semester, analysis of American foreign relations from colonial period to 1860; second semester, 1860 to present.

303—The American South (3)
Slavery and the plantation system, rise of sectionalism, Civil War and Reconstruction, the era of segregation and the civil rights movement. Spring 1983.

304—The Civil War (3)
Development of Southern nationalism and the Confederacy, emphasis on social, economic and political, as well as military, aspects of the War.

305—The Frontier in American History (3)
Western movement across the continent from colonial beginnings to the present; impact of frontier experience on American attitudes and values.

306—The Black in American History (3)
Development of racism, the slavery experience, the segregation era, the civil rights movement and the rise of black militancy. Fall 1983.

307, 308—Social History of the United States (3, 3)
Changing patterns of thought and social life in America, emphasizing the impact of Darwinism and industrialism. 1982-83.

309—The American Indian (3)
From pre-history to the present, with emphasis on differences among Indians and on interaction between Indians and whites.

311, 312—History of Virginia (3, 3)
First semester, English origins and colonial developments through the Revolutionary era; second semester, Jeffersonian period to the present.

331—Ancient Greece (3)
Geography, history and civilization of Greece from the earliest times through the death of Alexander the Great. Fall 1983.

332—Ancient Rome (3)
Formation, development and demise of the Republic; Augustus and the Empire; and the impact of Christianity. Spring 1984.

333—The Renaissance and Reformation (3)
Growth of Italian city-states, the new philosophy of man, Christian humanism and the spread of Protestantism.

351, 352—History of England (3, 3)
Survey of English history from beginning to present with emphasis on economic and political aspects and growth of British empire.

353, 354—History of France (3, 3)
First semester, Gaul and the Franks to French Revolution and Napoleon; second semester, Restoration Era to deGaulle.

356—History of Germany (3)
From the wars of unification to the present, with emphasis on the era of Bismarck, World War I, Weimar Republic, Third Reich and Cold War. Spring 1984.

357, 358—History of Russia (3, 3)
First semester, Kiev, Moscovy and Imperial Russia to 1856; second semester, the last Romanovs, Revolution and Soviet Period.

359, 360—History of Spain (3, 3)
From Moorish invasions to the present, with emphasis on social and economic developments from the 16th century to the modern age. 1983-84.

361, 362—History of Latin America (3, 3)
Colonial institutions, the independence movement, development of modern states, the Organization of American States and other international problems. 1982-83.

364—History of Japan (3)
Social, political and intellectual development of Japan from the earliest times to the present; emphasis on the rise of Japan to world power. Fall 1982.

365, 366—History of China (3, 3)
Social, political and intellectual development of China from the earliest times to the present; emphasis on the rise of modern nationalism, Maoist period.

371, 372—European Diplomatic History (3, 3)
First semester, development of modern state system through Napoleon; second semester, from Congress of Vienna through the World Wars to detente.

375—Military History (3)
The art of war and its impact on society from 18th century to present; military developments analyzed in terms of organization, strategy and technology. Fall 1982.

380—United States since 1945 (3)
Emphasis on major issues of the postwar era, including the Cold War, McCarthyism, civil rights movement, Vietnam, black militancy and feminism.

381—Europe since 1945 (3)
From end of World War II to present, with emphasis on Cold War, Common Market, colonial independence movements and domestic developments.

382—Far East since 1945 (3)
Cultural, social, economic and political developments in modern China, Japan and Korea, with emphasis on relations of those countries with United States and Soviet Union.

401, 402—United States Cultural and Intellectual History (3, 3)
Development of American culture and ideas through major historical figures and events; emphasis on law, science, religion and reform. 1983-84.

411, 412—European Cultural and Intellectual History (3, 3)
Analysis of significant developments in philosophical, political, religious, social and scientific thought, and their impact upon European culture. 1982-83.

471—Special Studies in History (3)
Prerequisite: junior or senior status. Seminars on related topics of particular historical importance.

481—Historiography (3)
Prerequisite: junior or senior status. The study of historical interpretation with emphasis on the major developments which have shaped the discipline of history.

491—Individual Study (3)
Prerequisite: permission of the instructor. Individual investigation of a subject of historical significance, directed by a member of the Department.

495—Historical Research (3)
Prerequisite: junior or senior status. Introduction to methods of historical research and writing, involving in-depth investigation of a subject of the student's choice.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

International Affairs

Department of Economics, Business and Public Affairs; Mr. Kramer, Career Adviser.

The interdisciplinary major in International Affairs is designed to provide the student with a broad knowledge of the contemporary international system as well as with specific expertise in a given geographic area and/or academic discipline. To this end, the major combines core courses that examine international affairs from a variety of disciplinary perspectives with related courses that permit students to pursue in depth their particular geographic and/or disciplinary interests.

Career opportunities for the major in International Affairs range from such traditional areas as work with government or private agencies engaged in research on foreign policy or intelligence issues to such new and rapidly expanding areas as employment with multinational corporations or international banking institutions.

Requirements for the Major

Core Courses: 18 credits in Political Science 321, 322, 356; Economics 392 or 401; History 372; Geography 321.

In Other Subjects: 21 credits to be selected by student and adviser from the following: Economics, French, Geography, German, History, Italian, Russian, Political Science, Public Administration, Spanish.

Language Requirement: Option A—At least six credits in each of two languages at the intermediate level. Option B—At least nine credits in one language at the advanced level.

471—International Affairs Seminar (3)
Emphasis on intensive reading with group discussion of the selections read.

491—Individual Study in International Affairs (3)
Prerequisite: Permission of department staff member. Empirical investigation and or library research.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Italian

Department of Modern Foreign Languages; Mr. Ascari, Career Adviser

See *Modern Foreign Languages* for statement of departmental goals and program.

101-102—Beginning Italian (3, 3)
Grammar, composition, conversation, reading, laboratory use.

201-202—Intermediate Italian (3, 3)
Grammar review, reading, oral work, laboratory use.

291—Studies in Language
1983-84.

315, 316—Society and Civilization (3, 3)
Literary, social and cultural history of the Italian people from the fall of the Roman Empire to the 20th Century. 1982-83.

371, 372—Nineteenth Century Literature (3, 3)
Includes Manzoni, Foscolo, Leopardi, D'Annunzio, De Sanctis, Verga, Pascoli, Carducci, Fogazzaro, Nievo. 1984-85.

381, 382—Modern Italian Literature (3, 3)
From Pirandello to Montale; prose and poetry of Gozzano, Svevo, Ungaretti, Moravia, Carlo Levi, Cardarelli, Palazzeschi, Buzzati, Silone, and others. Not offered 1982-84.

395—Italian Literature in Translation, Dante's *Divine Comedy* (3)
Taught in English. A thorough study of the *Divine Comedy* in its historical and cultural background.

396—Italian Literature in Translation: Masterpieces of the Renaissance (3)
Taught in English. Petrarch, Boccaccio, Cellini, Ariosto, Castiglione, Tasso, Machiavelli, etc.

491, 492—Individual Study (3, 3)
Intensive study of one or more authors selected by student in consultation with adviser.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Latin

Department of Classics, Philosophy, and Religion; Ms. Hatch, Career Adviser

See *Classics* for general statement of goals and program.

Requirements for the Major

25 credits in Latin courses beyond the intermediate level including 351; 12 credits from the following courses: Art History 114, 310, 311; Classics 201, 205, 206, 207, 380, 381; English 211, 212, 234, 242; Greek 131-132, 133, 134; History 331, 332; Italian 395; Linguistics 101; Philosophy 111, 312, 321; Religion 205, 206, 220, 306, 341 (Augustine).

111-112—Elementary Latin (3, 3)
Essentials of Latin grammar and composition; introduction to the translation of Latin literature.

113, 114—Intermediate Latin (3, 3)
Prerequisite: Latin 111-112 or two units of secondary school instruction. Continued study of Latin grammar and composition; readings from Latin prose and or poetry.

211, 212—Survey of Latin Literature (3, 3)
Prerequisite: Latin 113, 114 or four units of secondary school Latin. Historical survey of the development of Latin literature from earliest inscriptions to the end of pagan Roman writing. Usually offered alternate years.

311—Roman Drama (3)
Spring 1983.

312—Roman Historical Writing (3)
Usually offered alternate years.

313—Roman Satire (3)
Usually offered alternate years.

314—Epic Poetry (3)
Fall 1982.

317—Roman Letters (3)
Usually offered alternate years.

319—Lyric and Elegiac Poetry (3)
Usually offered alternate years.

351—Advanced Latin Grammar (1)
Required for all majors. Usually offered alternate years.

451, 452—Special Studies in Latin Literature (3, 3)
Reading and study of individual Latin authors, genres of literature or of an area of Roman civilization. By permission of the Classics faculty.

491, 492—Individual Study in Latin (1-3)
Individual study under the direction of a member of the staff. By permission of the Classics faculty.

Library Science

The ability to make effective use of library resources is essential to a liberal arts education. The offering in Library Science is designed to enhance student awareness of library resources in general and the College library and its resources in particular.

101—Library Resources and Their Use (1)
Introduction to college library resources with some emphasis on techniques of research. Taught by members of the Reference staff.

Linguistics

Department of English, Linguistics, and Speech

In offering courses in linguistics the Department aims to give the student, regardless of special interest, an understanding of the fundamental structure of language and, in conjunction with other disciplines, an opportunity to explore the acquisition of language in cultures and societies.

101—Introduction to General Linguistics (3)
The nature, structure, and function of language; its acquisition; its relationship to thought, and its use in a social context.

201—Issues in Sociolinguistics and Anthropological Linguistics (3)
Prerequisite: Linguistics 101. The significance of language for human social life; language as an instrument for the acquisition of personality, of social role and social status; verbal behavior and nonverbal communication. Spring 1984.

301—Major Figures in Linguistics (3)
Prerequisite: Linguistics 101. A course in the history of linguistic thought with special emphasis on significant figures and key developments in twentieth century linguistics. Spring 1983.

305—The English Language (3)
Prerequisite: Linguistics 101. Structural, transformational, and case grammars and their application to English.

491, 492—Independent Study in Linguistics (3 each)
Prerequisite: Linguistics 101. In-depth individual research in an area of linguistics under the guidance of a member of the staff. By permission of the Department.

Mathematics

Department of Mathematical Sciences and Physics; Mr. Lindsey, Career Adviser

The courses in Mathematics vary from the theoretical to the applied so that a major in mathematics can be a foundation for careers in industry, government, teaching or for the pursuit of a higher degree in graduate school. The Department also encourages double majors giving students entrance to a wide variety of fields upon graduation.

Requirements for the Major

In Major Subject: 24 credits in Mathematics courses beyond 221, including 331, 332, 341, 342 and 478 or 479.

In Other Subjects: 12 credits from among the following: Any Computer Science course above Computer Science 211, any course in Physics (except Physics 203, 204), Statistics 401, 402, Chemistry 383, 384, Philosophy 151, 244, 306 or any mathematics course above Mathematics 221.

101—Introduction to Mathematics (3)
A beginning level finite mathematics course for liberal arts students. Course contents may vary.

111—Precalculus (3)
Emphasis is on elementary functions including rational, exponential, logarithmic and trigonometric functions.

121—Calculus I (3)
Calculus of algebraic functions with applications.

221—Calculus II (3)
Advance topics of calculus of algebraic functions and calculus of transcendental functions with applications.

231—Calculus III (4)
Solid analytics, multivariate calculus, vector analysis and infinite series.

300—Linear Algebra (3)
Matrix algebra, determinants, vector spaces and linear transformations.

305—Mathematics for Teachers (3)
This course will cover those topics with which prospective elementary teachers must be familiar. Credit will be granted only to those students who are enrolled in a teacher certification program.

312—Differential Equations (3)
Prerequisite: Calculus II; recommended: Calculus III. Ordinary differential equations including LaPlace transformations.

321—Number Theory (3)
Properties of the integers: divisibility, congruences, quadratic reciprocity and number-theoretic functions.

325—Discrete Structure (3)
Prerequisite: Mathematics 221 and Computer Science 221. Mathematical models, sets, binary relations and functions, counting and algebras.

331, 332—Abstract Algebra (3, 3)
Prerequisite: Mathematics 300 or permission of instructor. Mappings, groups, rings, fields, vector spaces and linear transformation. Only in sequence.

341, 342—Advanced Calculus (3, 3)
Prerequisite: Mathematics 231. A rigorous, real analysis approach to the topics of calculus. Only in sequence.

361—Topics in Applied Mathematics (3)
Prerequisites: Mathematics 231, 300, 312 or permission of instructor. Selected topics in applied mathematics, such as partial differential equations, Fourier series and optimization methods. Course content may vary as interest of class and instructor demands.

412—Complex Variables (3)
Prerequisite: Mathematics 341. Analytic functions, Cauchy-Riemann conditions, integration, power series, calculus of residues, conformal mappings and applications.

431, 434—Higher Geometry (3, 3)
Methods of higher geometry; geometries of projective group of transformation; applications of affine and metric geometries.

441—General Topology (3)
Prerequisite: Mathematics 301. Point-set theory including connectedness, compactness, continuity and metric space.

451, 452—Numerical Analysis (3, 3)
Prerequisite: Computer Science 221. Corequisite: Mathematics 341. Numerical methods applied to solutions of equations; interpolation; differentiation; integration; and solution of differential equations. Only in sequence.

478, 479—Senior Seminar (1, 1)
Student must research and present a senior level mathematics topic to the class and the mathematics faculty.

491, 492—Selected Topics in Mathematics (3, 3)
Prerequisite: Departmental permission. Individual study under the direction of a member of the staff. May lead to graduation with Honors in Mathematics.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Medical Technology

Department of Biological Sciences; Mrs. Southworth, Career Adviser

See pages 19 and 26 for description of this cooperative program.

Under the cooperative program in Medical Technology, the student completes three years (92 credit hours) of undergraduate course work at Mary Washington College, followed by 12 months of clinical training at Fairfax Hospital, Roanoke Memorial Hospitals, or the University of Virginia Hospital. The degree earned is a Bachelor of Science in Medical Technology and is awarded by Mary Washington College.

Admission to the final 12-month hospital training program is competitive. The student must meet the admission requirements of the hospital to which application is made and should apply during the third year at Mary Washington. Upon successful completion of clinical work, students are qualified to take the National Registry Examination given by the American Society of Clinical Pathologists.

If students enrolled in the medical technology program change their interest, they may continue with the regular degree program at Mary Washington.

Requirements for the Major

At Mary Washington College: Biology 121, 122, 382-383, 371, 391; Chemistry 111, 112, 211, 212 (or 205, 252 instead of 211, 212) and three credits in Mathematics Statistics 200, Mathematics 121 and Physics 201, 202 are recommended.

At Cooperating Hospital: Clinical year.

Modern Foreign Languages

Department of Modern Foreign Languages

Through courses in French, German, Italian, Russian and Spanish, the Department offers students an opportunity to gain proficiency in comprehension, reading, writing and speaking in one or more foreign languages.

Language laboratory facilities for cassettes, tapes and records are used extensively to supplement classroom instruction. Upper-level classes are conducted in the foreign language. Through classroom instruction, individual research, and work in department sponsored language clubs, students come to know the culture of the people whose language they are studying.

The Department has major programs in French, German, and Spanish, and provides majors an opportunity to reside in small campus residence halls in which the language is spoken and which sponsor various intercultural programs each year. Interdisciplinary majors in Italian and Russian Studies are possible through the Special Major Program.

The Department cooperates with a variety of overseas study groups and advises and encourages students wishing to study abroad, and helps in planning their foreign study programs.

Graduates in modern foreign languages enter any number of governmental or private fields in which the knowledge of a foreign language and culture is essential, including interpreting, translating, research, social services, education or international business.

See individual language listings: *French, German, Italian, Russian, Spanish.*

Literatures in Translation

The Department of Modern Foreign Languages offers the following courses on foreign literatures in English translation:

ITAL 395—Dante's *Divine Comedy*.

ITAL 396—Renaissance Masterpieces (Petrarch, Boccaccio, etc.)

RUSS 295—Russian writers of the 19th century.

RUSS 296—20th century writers (Gorky, Solzhenitsyn, etc.)

RUSS 397—Dostoevsky and Tolstoy.

Music

Department of Music; Mrs. Norwood, Career Adviser

The Department of Music offers a major program in music as well as courses that can be chosen as electives by students whose primary interests are in other fields.

The major program includes intensive study in the theory, literature, history and skill areas of music as well as instruction in instruments and voice. As in all liberal arts programs, the emphasis is on broad coverage rather than specialization.

The courses and major program of the Music Department provide a background for graduate school, careers in the performing arts, teaching, and the music industry, as well as personal enrichment through a better understanding of the art and science of music.

Regular recitals and concerts by faculty, visiting performers and on-campus organizations are sponsored; the College also presents artists in the formal Concert Series. Students appear in general recitals, senior recitals, and perform with the College-Community Symphony Orchestra, the MWC Chorus, the Fredericksburg Singers, the MWC Jazz Ensemble, and various other vocal and instrumental ensembles.

The Music Department has a chapter of Mu Phi Epsilon, international professional music fraternity, and sponsors student chapters of the American Guild of Organists and the Music Educators National Conference.

The Department of Music is an institutional member of the National Association of Schools of Music (NASM), and its courses are fully accredited by that organization.

Requirements for the Major

N.B. Students planning to major in Music should take Music Theory (MUTH) 181, 285, and Music History and Literature (MUHL) 271 in their first semester.

In Major Subject: Music Theory 181, 281, 285, 286, 381, 382, 385, 386, 481, 490; Music History and Literature 271, 272, 371, 372, 471, 472, plus 11 more credits in Music courses above the 100-level.

Music History and Literature (MUHL)

155—Introduction to Music (3)
The developments of aural perception of music through examples of symphonic, choral, operatic, chamber, vocal, and keyboard works presented historically. A foundational experience for the non-major.

251—Music in Concert (1)
An application of evaluative techniques and formal concert reporting using available live performance experiences. May be repeated for credit.

267—Music and the Arts (3)
A music-oriented humanities course emphasizing the stylistic character and cultural climate of music in relation to other arts of Western civilization.

269—History of Musical Instruments (3)
The evolution of musical instruments in Western culture, performance practices, literature and development of the orchestra.

271—Medieval History and Literature (1)
Historical concepts from antiquity through 1450. Cultural roles, liturgical developments and secular styles presented through representative compositions.

272—Renaissance History and Literature (1)
Historical concepts from 1450 through 1600. Cultural roles, liturgical developments and secular styles exemplified. Vocal and instrumental works demonstrated.

351—Keyboard Literature (2)
An historical survey of keyboard music written from the 17th century through the present, including works written for organ and harpsichord, but emphasizing the piano.

353—Choral Literature (2)
Sacred and secular literature from the Renaissance through the 20th century. Consideration of textual and musical content.

355—Symphonic Literature (2)
A theoretical and historical study of orchestral music from its inception through the present. Examples from major works will be investigated.

357—History of Opera (3)
The major developments in opera from 1600 to the present, including works by Monteverdi, Purcell, Mozart, Verdi, Wagner, Debussy, and Berg.

367—Twentieth Century Music (3)
Twentieth-century practices in musical composition and their relationship to the historical developments in music of our time.

368—History of Jazz (3)
The development of jazz, ragtime, blues, dixieland, boogie-woogie, and later styles which evolved from jazz.

370—Introduction to Electronic Music (3)
Emphasis on historical developments, current status, physical concepts, language and compositional techniques as they apply to synthesized music. Fall 1983.

371—Baroque History and Literature (1)
Historical concepts from 1600 through 1750. The developments of operatic, choral, instrumental and solo literature. Representative works presented.

372—Classical and Romantic History and Literature (1)
The developments in instrumental, choral, keyboard and solo literature presented through definitive compositions.

471—Music Through Beethoven (2)
Prerequisite: MUHL 271, 272, 371, 372 or equivalent. An in-depth study in music history culminating in analysis of specific significant compositions. Research techniques are formulated.

472—Music From Beethoven (2)
Prerequisite: MUHL 471 or equivalent. An in-depth experience in music history culminating in analysis of specific, significant compositions. Research techniques are formulated.

491, 492—Individual Study (1-3)
Individual study is under the direction of a Music Department faculty member. Details may be obtained from the chairperson. By permission of the Department.

499—Internship
Supervised off-campus experiences, developed in consultation with the Department of Music and the College's internship committee. Credit is variable.

Theory of Music (MUTH)

181—Introduction to Music Theory (3)
Basic music theory explained. Modes, scales, clefs, intervals, notation, etc. conceptually presented with examples from early music.

281—Pre-Baroque Music Theory (3)
Prerequisite: MUTH 181 or equivalent. Species counterpoint, late 16th century polyphony, evolution of triads and emphasis on the motet and early chorale writing.

285—Skill Development I (1)
Development and application of monophonic aural and written skills. Includes sight-singing, dictation and keyboard experiences. A companion course to MUTH 181, and must be taken by music majors with that course.

286—Skill Development II (1)
Prerequisite: MUTH 285. Development and application of two and three-part aural and written skills. Includes sight-singing, dictation and keyboard experiences. A companion course to MUTH 281, and must be taken by music majors with that course.

369—Orchestration (3)
Prerequisite or corequisite: MUTH 382. The techniques of instrumental scoring considered historically and creatively. Fall 1982.

381—Baroque Music Theory (3)
Prerequisite: MUTH 281. Explores major-minor tonality, figured bass, 7th chords, cadence formulae, modulations and progressions as exemplified in period pieces.

382—Classical Music Theory (3)
Prerequisite: MUTH 381. Harmonic syntax and structure of the post-Baroque era is covered. Includes altered chords, disintegration of tonality and advanced chromatism.

385—Skill Development III (1)
Prerequisite: MUTH 286. Development and application of three and four-part aural and written skills. Includes sight-singing, dictation and keyboard experiences. A companion course to MUTH 381, and must be taken by music majors with that course.

386—Skill Development IV (1)
Prerequisite: MUTH 385. A continuing development and application of aural and written skills. Includes sight-singing and dictation. Keyboard experiences are emphasized. A companion course to MUTH 382, and must be taken by music majors with that course.

481—Contemporary Music Theory (3)
Prerequisite: MUTH 382. The harmonic concepts of Hindemith, Schoenberg and other 20th-century composers are explored, including 12-tone techniques.

483—Music Composition (3)
Prerequisite or corequisite: MUTH 481. A study of compositional techniques focusing on selected style periods, featuring both large and small models. A creative project is required.

490—Music History-Theory Seminar (2)
Prerequisite or corequisite: MUTH 481, MUHL 472. Analysis from an historical and theoretical perspective.

Music Performance (MUPR)

Studio Lessons

Individual lessons (based upon a placement audition) are offered advanced performers.

A maximum of 12 credits in individual instruction is allowed toward the degree. However, all credits beyond this will be credited over and above the 122 hours required for graduation.

300-level courses constitute one half-hour lesson per week for one credit. 400-level courses constitute one hour lesson per week for two credits.

301, 401—Voice
305, 405—Piano
309, 409—Harp
310, 410—Organ
311, 411—Flute
312, 412—Oboe
313, 413—Clarinet
314, 414—Bassoon
315, 415—Saxophone
321, 421—French Horn
322, 422—Trumpet
323, 423—Trombone Baritone
324, 424—Tuba
325, 425—Percussion
331, 431—Violin
332, 432—Viola
333, 433—Violoncello
334, 434—Contrabass
335, 435—Guitar

201, 202, 203, 204—Class Voice I, II, III, IV (1)
Class instruction for beginners through the intermediate level. Emphasis on the fundamentals of vocal techniques through performance. An audition is required for placement.

205, 206, 207, 208—Class Piano I, II, III, IV (1)
Class instruction for beginners through the intermediate level. 205 and 206 deal with fundamental performance techniques including note reading, while 207 and 208 emphasize musical expression. An audition is required for placement.

211, 212—Class Woodwind Instruments (1)
Beginning group study in performance techniques of woodwind instruments. Students who enroll in 212 after completing 211 must study an alternate instrument.

221, 222—Class Brasswind Instruments (1)
Beginning group study in performance techniques of brasswind instruments. Students who enroll in 222 after completing 221 must study an alternate instrument.

225—Class Percussion (1)
Beginning group study in performance techniques of percussion instruments.

231, 232—Class String Instruments (1)
Beginning group study in performance techniques of string instruments. Students who enroll in 232 after completing 231 must study an alternate instrument.

236, 237—Class Guitar (1)
Beginning group study in performance techniques of the guitar. Offered only at special times.

341—Chorus (1)
Students have an opportunity to study and perform selected repertoire representative of all periods of music. Open by audition.

342—Orchestra (1)
Orchestral literature from all periods of music performed. The College-Community Symphony Orchestra is comprised of students and community instrumentalists. Open by audition.

344—Instrumental Ensemble (1)
Instrumental performance experience for students whose interest is in small group participation. The current emphasis is with Jazz. Open by audition.

347—Choral Conducting (2)
Prerequisite or corequisite: MUTH 381, 385. The principles and techniques of choral conducting, including choral materials, choral arranging and program planning.

348—Instrumental Conducting (2)
Prerequisite or corequisite: MUTH 382, 386. The principles and techniques of instrumental conducting, including score reading, score analysis and program planning.

Music Education (MUED)

359—Music for the Elementary Classroom Teacher (3)
The objectives and processes of teaching music in the elementary schools with emphasis on music reading, conceptual learning and teacher competencies. For the non-music major who is preparing to teach in the elementary schools.

468—Choral Music for Church (1)
A comprehensive survey of selected choral offerings for the church. Participants sing and discuss choral techniques. Offered only at special times.

469—Choral Music for School (1)
A comprehensive survey of selected choral offerings for school use. Participants sing and discuss choral techniques. Offered only at special times.

470—The Orchestra and the School (2)
Deals with the problems of maintaining an orchestral ensemble within the school. Includes topics of interest to the instrumental teacher. Offered only at special times.

Teacher preparation classes for the music major are listed under the Department of Education: EDUC 317, 318.

Performing Arts

Department of Dramatic Arts and Dance

See *Dramatic Arts* for statement of departmental goals and programs.

Requirements for the Major

In Major Subject: 36 credits in Performing Arts, including two years (8 crs.) of Ballet, two years (8 crs.) of Modern Dance, Dance 235, Drama 221, 222, 421, 422, Dance 491 or Drama 491, and 10 additional credits in approved upper-level Dance or Dramatic Arts courses. Admission by audition only.

Philosophy

Department of Classics, Philosophy and Religion; Mr. Van Sant, Career Adviser

Philosophy is the critical examination of our basic beliefs. It requires the analysis of abstractions, and it develops the ability to do research, organize results, and present these results in written or oral form.

Because the discipline emphasizes creative research into philosophical problems as well as the competent expression of one's own views, philosophy can be studied profitably by a student majoring in any College program.

The objectives of the discipline are to serve the academic program of the whole College by offering courses of interest to the scientist and mathematician, to the social scientist, and to the student interested in the humanities and literature.

The major in philosophy is of special interest to students who wish a deeper understanding of the history of the discipline and the inter-relations between philosophical problems. The major is especially beneficial to students planning to enter the traditional professions of law, theology, or medicine. Many students give depth to their academic preparation by combining philosophy and another subject in a double major.

Requirements for the Major

In Major Subject: 24 credits in Philosophy, 18 of which must be at the 300 or 400 level; 9 credits from Philosophy 321, 322, 371, 372, 373; 6 credits from the following: American Studies 402; Anthropology 322; Classics 206, 322; CPRD 299; History 401, 402, 411, 412; Philosophy/Biology 250; Religion 306, 341.

111—Introduction: Morals and Society (3)
Alternate views of the nature of morality.

151—Introduction: Logic and Language (3)
Valid forms of reasoning.

211—Ethical Studies (3)
The status and justification of moral judgments, and the reasons behind disagreements in moral issues. Usually offered alternate years.

212—Aesthetics (3)
Examination of a variety of attempts to validate norms of taste and of criticism.

244—History of Scientific Thought (3)
Key developments in the history of scientific thinking.

250—Bioethics (3)
Prerequisite: Biology 121, 122. Selected topics considered from the standpoint of their biological consequences and ethical implications for man.

304—American Philosophy (3)
Survey of American thought. Usually offered alternate years.

306—Advanced Logic (3)
Prerequisite: Philosophy 151 or completion of 6 credits in mathematics. Theory of formal systems; applied criteria of consistency, completeness and quantification; and other topics in symbolic logic.

320—Philosophical Problems of Law (3)
The relation between moral philosophy and criminal and civil law.

321—Greek Philosophy (3)
Selected works of Plato and Aristotle. Usually offered alternate years.

322—Medieval Philosophy (3)
Survey of scholastic philosophy. Fall 1982.

343—Existentialism (3)
Recent philosophical developments in the continental European tradition.

354—Philosophy of Education (3)
Historical and contemporary philosophical examinations of the goals and methods of education. Usually offered alternate years.

371—Seventeenth and Eighteenth Century Philosophy (3)
Survey of major thinkers from Descartes to Hume.

372—Kant (3)
Selected major works of Immanuel Kant. Spring 1983.

373—Nineteenth and Twentieth Century Philosophy (3)
Critical consideration of major thinkers and movements from the late 19th century to the present.

481—Readings in Philosophy (3)
Discussion of philosophical literature in a field selected by the philosophy faculty after consultation with students.

491, 492—Individual Study (3-6)
Tutorial under the direction of a member of the staff. By permission of the philosophy faculty.

499—Internship
Supervised off-campus experience, developed in consultation with the philosophy faculty. Credits variable.

Physical Education

Department of Health and Physical Education

Participation in physical activities, including physical education classes, recreational programs, and intercollegiate athletics, is considered an essential part of the educational experience at Mary Washington.

The center for all indoor health, physical education and recreation is Goolrick Hall. A modern 74,000 square foot building, it houses courts for basketball, volleyball, and badminton, two dance studios, a large swimming pool, one four-wall handball-racketball court, seven one-wall racketball courts, a 16-station weight machine, a table-tennis room, indoor golf and archery ranges, seven large classrooms, and an auxiliary gym for classes in individual exercise and gymnastics.

The outdoor facilities include fields for hockey, soccer, lacrosse, flag football, and softball, an archery range, a golf driving range and putting areas, a running trail, a track, and fourteen tennis courts (including a new ten-court lighted complex).

Physical education courses include history, rules, and basic techniques in a wide range of individual and team sports. Riding courses are available for credit, but require a special fee. Health 100 provides an exposure to modern health problems.

Health Education

100—Contemporary Health Problems (3)

Physical Education

(Courses may be repeated for additional credit but no more than 8 credits may be counted toward the 122 credits required for graduation.)

101, 301—Field Hockey (1, 1)
103, 303—Basketball (1, 1)
105, 305—Volleyball (1, 1)
109, 309—Lacrosse (1, 1)
111, 311—Gymnastics (1, 1)
113, 313—Individual Exercise (1, 1)
115, 316—Swimming (1, 1)
119, 319—Flag Football (1, 1)
123, 323—Soccer (1, 1)
127, 327—Folk and Social Dance (1, 1)
132, 332—Racketball (1, 1)
133, 333—Tennis (1, 1)
135, 335—Golf (1, 1)
139, 339—Archery (1, 1)
141, 341—Fencing (1, 1)
145, 345—Badminton (1, 1)

147—Beginning Horsemanship (1)
Fundamentals of a good, balanced seat at the walk, trot, and canter; basic terminology of horsemanship and its equipment.

150—First Aid (1)

247—Intermediate Horsemanship (1)
Balanced seat with quiet control at all gaits; jumping fundamentals; the development of the horse and equine psychology.

315—Advanced Life Saving (1)

347—Advanced Horsemanship (1)
Polished style in hunter seat equitation; development of individual horses to their potential, on the flat and over fences; preparation for intercollegiate competition. Stable management, equine psychology, preventive medicine, and first aid.

401—Intercollegiate Field Hockey (1)
403—Intercollegiate Basketball (1)
405—Intercollegiate Volleyball (1)
409—Intercollegiate Lacrosse (1)
415—Water Safety Instruction (1)
416—Intercollegiate Swimming (1)
423—Intercollegiate Soccer (1)
433—Intercollegiate Tennis (1)
435—Intercollegiate Golf (1)
447—Intercollegiate Riding (1)
471—Intercollegiate Cross Country (1)
481—Intercollegiate Track (1)

Physics

Department of Mathematical Sciences and Physics; Mr. Atalay, Career Adviser

The courses offered in the Physics major are primarily theoretical in nature; however, well-equipped laboratories make it possible for upperclass students to engage in research.

The diversity of the curriculum allows students to pursue careers in industry, government, and teaching or to undertake graduate work. The Department also encourages double majors which enhances the job opportunities of graduates.

Requirements for the Major

In Major Subject: General Physics and 24 credits in Physics courses above 204, including 321, 322, 331, 332, 411, 412.

In Other Subjects: Mathematics 121, 221 and 6 credits from among the following: any mathematics course above Mathemetics 221, any chemistry course, any geology course, Statistics 321, 401, 402, or any physics course above Physics 204.

101, 102—General Physics (4, 4)
Introductory course. Primarily for non-science and non-physical science students. Stresses conceptual rather than mathematical aspects. Laboratory.

201, 202—General Physics (4, 4)
Corequisite: Mathematics 121. Introductory course. Primarily for science students. Covers essentially the same as Physics 101, 102, except more mathematical rigor is employed. Laboratory.

203, 204—General Astronomy (3, 3)
Historical and descriptive survey of the physical universe. A limited laboratory is included.

311—Atomic Physics (3)
Prerequisite: General Physics. Foundations of quantum mechanics, atoms with one electron, multielectron atoms, molecules, solid state physics, the special theory of relativity.

312—Nuclear Physics (3)
Prerequisite: General Physics. Nuclear structure, static and dynamic properties, and fundamental particles. A limited laboratory includes experiments in alpha, beta and gamma-ray spectroscopy.

321, 322—Classical Mechanics (3, 3)
Prerequisite: Physics 102, or 202 or equivalent, Mathematics 221. Kinematics and dynamics of mass particle, conservation laws, Lagrange, Hamiltonian methods, Hamilton's equations of motion, the special theory of relativity. Only in sequence.

331, 332—Electricity and Magnetism (3, 3)
Prerequisites: Mathematics 221 and General Physics. Foundations of electromagnetic theory. Emphasis on lectures and limited laboratory demonstrations. Only in sequence.

371—Thermodynamics (3)
Prerequisites: Mathematics 221 and General Physics. Temperature, thermodynamic states and variables, the laws of thermodynamics, entropy, thermodynamic potentials, change of phase.

382—Electronics (3)
Prerequisites: Mathematics 221 and General Physics. Introduction to the theory and operation of electronic instruments and basic circuits. Limited lectures with emphasis on laboratory work.

391—Optics (3)
Prerequisites: Mathematics 221 and General Physics. Introduction to theory of physical optics, includes lectures and laboratory.

411, 412—Quantum Mechanics (3, 3)
Prerequisite: Physics 322. Schrodinger's equation, harmonic oscillator, matrix formulation of quantum mechanics, angular momentum, scattering theory, perturbation theory, relativistic quantum mechanics. The computer is often used for matrix manipulation. Only in sequence.

451, 452—Methods of Theoretical Physics (3, 3)
Prerequisites: Mathematics 221 and General Physics. Vectors, matrices, coordinates, functions of complex variable, differential equations, Fourier and LaPlace transformation, vector spaces, variational methods, tensors, group theory. Only in sequence.

462—Advanced Nuclear Physics (3)
Prerequisite: Physics 312. Mass, size and constitution of nuclei, nuclear models, two-body forces, scattering reactions, introduction to elementary particles. The computer is used for matrix computations. Usually taught as a summer course.

472—Statistical Mechanics (3)
Prerequisite: Physics 371. Ensembles, microcanonical, canonical and grandcanonical distributions. Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac distributions.

482—Physics Seminar (1)
Open to third and fourth year physics students for credit.

491, 492—Individual Study (3, 3)
Open to junior and senior physics majors. Qualified seniors may undertake individual study, which culminates with a thesis, which may lead to Honors in Physics.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Political Science

Department of Economics, Business and Public Affairs; Mr. Krickus, Career Adviser

Political science, basically the study of how various political systems work, offers courses ranging from urban politics and government to international politics. The Department also provides many outlets through which students can gain practical knowledge of the field, including visits to the Virginia state capital and to Washington, D.C., internships in governmental offices, and involvement in major political events, such as the United Nations' student conference. Like economics, political science is a good background for a career in law, urban planning, teaching, government and private enterprise; it also lends itself to further study in graduate school.

Requirements for the Major:

In Major Subject: 30 credits in Political Science including 101, 102, 301, 302; 6 credits from among the following: Political Science 321, 441, 442; 9 credits from Political Science 201, 202, 332, 356.

101—Introduction to Political Science I (3)
Survey of the basic concepts and theories of political science from antiquity to the present, including contemporary analytical techniques.

102—Introduction to Political Science II (3)
Continuation of Political Science 101, with primary emphasis on modern comparative political analysis and international relations.

Political Science 101 and 102 are prerequisites for all Political Science courses above Political Science 211.

201, 202—American Government (3,3)
Principles of Political Science as applied to American national government, state government and local government.

211—Congress and the Political Process (3)
Analysis of the contemporary role of Congress in its relation to the Presidency, the federal bureaucracy, and pressure groups.

212—The American Presidency (3)
Analysis of the modern Presidency and its relationship to democratic theory.

301—Comparative Government I (3)
Comparative analysis of the governments of the United Kingdom, France and West Germany.

302—Comparative Government II (3)
Comparative analysis of the governments of the Soviet Union and Eastern Europe.

304—Contemporary American Politics (3)
In-depth analysis of selected problems in contemporary American politics.

321—Theory of International Politics (3)
Analysis of contemporary theory of international politics, including evaluation of the United Nations and other international organizations.

322—Problems in International Politics (3)
Analysis in depth of major contemporary problems in international politics.

332—Metropolitan Problems (3)
Analytical study of the problems of American cities and other areas.

334—Political Parties (3)
Structure and functions of political parties; conduct of elections; pressure groups.

341—Government Finance (3)
An analysis of the appropriate role of government in the allocation of resources.

350—Political Modernization (3)
Conceptual approach to the problem of political modernization.

354—Politics of South and Southeast Asia (3)
Study of the political development of India, Pakistan, Thailand, Laos, Cambodia, and Vietnam.

355—Politics of North Africa and the Middle East (3)
Study of the political development of the nations of North Africa and the Middle East.

356—American Foreign Policy (3)
Problems facing the United States in its search for national security and international stability.

357—Soviet Foreign Policy (3)
Analysis of the foreign policy of the Soviet Union, including its conflict with China.

360—The Theory and Practice of Revolution (3)
Comparative analysis of the writings of major theorists of revolution from various parts of the world.

361—Problems of Communism (3)
Study of the origins, development, and contemporary aspects of world communism.

362—Political Geography (3)
Study of geographic factors in world power and international affairs.

365—Foreign Policy of the People's Republic of China
A survey of the foreign policy of the People's Republic of China from 1949 to the present. Topics examined include China's role in fomenting revolutions, Sino-American relations, and the split between the U.S.S.R. and the People's Republic.

422—American Civil Liberties (3)
Intensive analysis of civil liberties in the United States, based primarily upon decisions of the Supreme Court.

441—History of Political Thought I (3)
Examination of the contributions of the great political theorists from Plato to Burke.

442—History of Political Thought II (3)
Examination of the contributions of modern political philosophies.

443—Modern Political Analysis (3)
Study of the theories and application of modern political analysis.

471—Political Science Seminar (3)
Emphasis on intensive reading with group discussion of the selections read.

491—Individual Study in Political Science (3)
Directed individual research on approved problems in political science.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Pre-Medical

Mrs. Southworth, Career Adviser

Pre-medical students follow the regular degree program, majoring in any field, but in addition, with the assistance of the career adviser, select courses that are necessary to be considered for medical school and to prepare them for the medical college admissions test. Students planning to apply to a specific medical or dental school should carefully investigate the entrance requirements. Typically students complete the following science courses during the first two years: Biology 121, 122—General Biology; Chemistry 111, 112—General Chemistry; Mathematics 111—Mathematical Analysis or Mathematics 121—Calculus; Physics 201, 202—General Physics; Chemistry 211, 212—Organic Chemistry. In addition, students complete the competence and general requirements and begin the major program. In the last two years, students complete the major program and may elect additional biology and chemistry courses to strengthen their science background.

Psychology

Department of Psychology; Ms. Rabson, Career Adviser

The principal objective of the Department of Psychology is to provide sound course work in the field of psychology (i.e., the study of behavior). This coverage includes both traditional areas and those that represent more recent trends and theoretical developments in the discipline.

The Department offers both a B.S. and a B.A. degree in psychology. The B.S. curriculum provides theory, methodology, and individual research experience most useful to the student planning graduate training in social science. The B.A. degree provides a separate methodology appropriate to entry-level jobs in psychology and individual experience with applied psychology. Each major is assigned a faculty adviser to help plan a program best suited to the individual.

Career options available to majors include: teaching at the primary or secondary level (with an appropriate certification), social work, probation and parole, drug abuse counseling, and technical or counseling opportunities in a variety of mental health settings. Students interested in pursuing psychology as a long-range career will find the B.S. curriculum an excellent preparation for graduate study.

Requirements for the Major

B.A. Degree: In Major Subject: 30 credits in Psychology courses including 101, 102, 261, 361, or 362, 421, 470 and at least one course from each of the following groupings: (1) 320, 331, 332; (2) 311, 315, 342; (3) 301, 353, 392, 394; (4) 307, 380, 381.

B.S. Degree: In Major Subject: 36 credits in Psychology courses including 101, 102, 261, 361, 421, 491, and at least one course from each of the following groupings: (1) 320, 331, 332; (2) 311, 315, 342; (3) 301, 353, 392, 394; (4) 372, 373, 374.

101, 102—General Psychology (3, 3)
Fundamental Principles of human behavior; biological antecedents; motivation; perception; learning; individual differences; intelligence; and personality. Only in sequence.

261—Statistics and Research Methods (4)
Consideration of fundamental statistical topics with laboratory integration of data collection and data analysis.

Psychology 101 and 102, or their equivalent, are prerequisite for all 300- and 400-level Psychology courses.

301—Social Psychology (3)
Individual behavior in a social context; socialization; attitudes, social perception, and behavioral interaction.

307—Computer Applications in the Social Sciences (3)
Prerequisite: Psychology 361 or 362. BASIC programming, statistical packages and applications, computer simulation, and the general use of the computer as a research tool.

311—Abnormal Psychology (3)
Examination of the major varieties of pathological behavior, explanatory models and modes of treatment.

315—Foundations of Clinical Psychology (3)
Theories and practices of the major schools of psychotherapy; psycho-analysis, client-centered, family systems, behavior modification, and community psychology.

320—Psychology of Exceptional Children (3)
The study of deviations in physical, intellectual, and emotional development. Consideration of relevant theories, issues, and therapy programs.

321—Practicum in Exceptional Child Psychology (1)
Prerequisite or Corequisite: Psychology 320. Supervised experience working with exceptional children in local schools and agencies.

325S—Educational Psychology (3)
Both application and theory of learning and educational technology principles as they apply to the classroom setting.

331—Developmental Psychology: The Infant and Child (3)
Development from conception through childhood. Developmental processes, theories, issues and relevant research.

332—Developmental Psychology: The Adolescent and Adult (3)
Theories of, and research on, personality, social, physical and intellectual characteristics from adolescence to death.

342—Psychology of Personality (3)
Personality structure, dynamics, development, and methods of research.

353—Fundamentals of Learning and Motivation (3)
A survey of empirical findings and theoretical issues in the analysis of learning and motivation and their interaction in determining behavior.

361—Inferential Statistics and Research Methods (4)
Prerequisite: Psychology 261. In-depth coverage of data analysis techniques and inferential tests with laboratory integration of data collection and data analysis.

362—Applied Methods (4)
Prerequisite: Psychology 261. An overview of methods commonly used in applied psychological settings. Topics include basic clinical methods, data skills and organizational interactions.

372—Experimental Psychology: Sensation and Perception (4)
Prerequisite: Psychology 361 or 362. A laboratory approach to the study of visual and auditory sensory and perceptual psychology, with emphasis on psycho-physical methods.

373—Experimental Psychology: Human Learning (4)
Prerequisite: Psychology 361 or 362. An examination of method, data and theory in human learning and memory research.

374—Experimental Psychology: Physiological Psychology (4)
Prerequisite: Psychology 361 or 362. Critical survey of physiological correlates of behavior emphasizing neurophysiological mechanisms in perception, motivation and learning plus methods of physiological investigation.

380—Psychological Tests and Measurements (4)
Prerequisite: Psychology 361 or 362. Theory of test construction and the interpretation and uses of tests. Test administration and techniques of handling data.

381—Applied Behavioral Analysis (4)
Prerequisite: Psychology 361 or 362. Study and experience with the principles of operant conditioning as applied to the modification of human and animal behavior.

385—Industrial-Organizational Psychology (3)
Prerequisite: Psychology 261 or Statistics 200. An application of psychological principles and research to human problems in industry, business, and government. Topics include: personnel selection and placement, job and work environments, worker motivation, job satisfaction, and the organizational and social context of human work.

392—Behavior Genetics (3)
Prerequisite: One year of biology and one year of Psychology. Principles of genetic transmission, gene action, population structure and evolutionary theory applied to problems in animal and human behavior.

394—Psychopharmacology (3)
Prerequisite: One year of biology or one year of chemistry. Introduction to principles of drug action in the body, drug effects on behavior and social psychology of drug use.

421—History of Psychology (3)
Survey of the historical antecedents of modern psychology.

470, 471, 472, 473, 474—Selected Topics in Psychology (3 each)
Enduring and/or contemporary issues in psychology.

491—Individual Research (1-4)
Prerequisite: Permission of departmental staff member. Empirical investigation and/or library research. Maximum of eight credit hours allowable toward fulfilling the major field requirement.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Public Administration

Department of Economics, Business and Public Affairs; Ms. Lindeman, Career Adviser

Public Administration is the theory and methodology of public goods and services delivery to constituents within the legal framework of the public policy process.

The Public Administration major is designed to instruct the student in the assumptions and values that are the basis of the public policy process, the administration of public programs for the explicit purpose of improving the conditions of constituents, the relationship between public administrators and elected officials, and the problems and prospects of holding both accountable for their actions.

Public Administration prepares students for careers in government, law, teaching, and private consulting. Majors in Public Administration are uniquely qualified to participate in the college's internship program, gaining practical knowledge by working for local, state, and federal agencies and private organizations involved in public sector affairs.

Requirements for the Major

Core Courses: 27 credits in Public Administration courses including Public Administration 311, 320, 330, 401, 420, 450.

In Other Subjects: 12 credits in Business Administration 231, Economics 341, Political Science 201, and either Economics 361 or Statistics 200.

311—Public Administration I (3)
An introduction to public administration theory and practice, including both principles of internal management and the delivery of services to constituents within the public policy process.

312—Public Administration II (3)
An introduction to the public administration of service delivery systems and the impact of public policy changes. A review of current public policy changes at the federal, state, and local levels; their impact on the delivery of public services and the subsequent effect on users and communities.

Public Administration 311 and 312 are prerequisites for all other Public Administration courses.

320—Introduction to Planning Theory and Methods (3)
Introduction to planning theory and methods in government. History and current development of planning process; contributions made by other disciplines; professional and societal context.

330—Research Methods in Public Administration (3)
Introduction to research design and methodology in public administration, including program evaluation methods.

401—Public Policy (3)
An examination of the public policy process, including discussion of contemporary public issues and the adoption and implementation of solutions to public problems. The course will highlight the major actors in the policy process as well as the environment within which they work.

402—Comparative Public Policy and Administration (3)
An introduction to the public policy process and administration in other countries, their differences and similarities in comparison to the United States. A review of current policy changes as they affect the administration of the public sector within and between countries.

420—Introduction to Service Delivery Systems Planning (3)
Introduction to service delivery systems planning in government. The application of normative, strategic, and tactical planning theory and methods to the provision of public services in the context of community, user and agency needs; implementation process and impact evaluation as part of planning components.

431—Financial Resources Administration (3)
Introduction to public financial management and budgeting; the evolution of public budgeting from line-item budgeting to PPBS and Zero-Base Budgeting; application of accounting and finance principles to the preparation and analysis of government budgets; differences between federal, state, and local practices.

450—Personnel Resources Administration (3)
Introduction to theory and methods of public personnel systems administration; development of American public personnel administration; the Civil Service and Merit System; the rise of professionalism. The challenge of affirmative action, public unionism, and managerial control in labor management relations.

460—Urban Systems Administration (3)
Introduction to urban management systems; urban public professions; the urban experience (criminal justice, housing, transit, etc.); urban federalism; growth management.

471—Public Administration Seminar (3)
Special topics of interest to staff and students will be discussed in seminar.

491—Individual Study in Public Administration (3)
Directed individual research on approved problems in public policy and public administration.

499—Internship
Supervised off-campus experience developed in consultation with the Department. Credits variable.

Religion

Department of Classics, Philosophy and Religion; Mr. Cain, Career Adviser

Courses in religion acquaint students with ways of studying religion, the kinds of questions to be asked, and the kinds of answers which learning can and cannot yield.

Religion offerings focus on the history and theology of the Western religious tradition. The small number of staff permits personal attention, encouragement of individual interests, and a high degree of flexibility. A guided research course, taken by all senior majors, involves a senior paper.

The B.A. degree in religion equips students for graduate school or seminary study in religion, as well as in graduate programs in other fields. Career opportunities are not limited to those opened by further study. A religion major is a humanities student of broad cultural awareness trained to think, write, and express cogently, to enter into dialogue discerningly with diverse ideas and perspectives. Such training is requisite to any career and is ultimately practical in life itself.

Requirements for the Major

In Major Subject: 30 credits in religion courses of which at least 12 must be at the 300 level or above, including 401.

105—Introduction to Religion (3)
Various approaches to the study of religion, the significance and limits; Eastern and Western traditions in relation to contemporary concerns.

111—Introduction to Christian History (3)
Selected topics in the development of Christianity and its institutions from the birth of the church to the present.

117—Introduction to Christian Theology (3)
The "how" as well as the "what" of theology is explored in relation to basic doctrines and concepts.

201—Judaism (3)
Historical and religious development of Judaism from Biblical times to the present. Usually offered alternate years.

202—The Roman Catholic Tradition (3)
Historical and theological development of Western Catholic Christianity through the Second Vatican Council.

203—The Protestant Tradition (3)
Historical and theological development of Protestant denominations and sects from the Reformation to the present. Usually offered alternate years.

205—The Hebrew Bible (3)
The history, literature and religion of ancient Israel.

206—The New Testament (3)
Historical-critical methods of study are introduced and applied in investigating New Testament sources, forms and theological motifs.

217—Primitive Religions (3)
Religions of non-literate peoples. Emphasis is on interpretation of myths, rituals and shamanism. Usually offered alternate years.

220—Studies in Suffering and Evil (3)
A theological and literary examination of theodicy: "If God is good, whence evil?" Emphasis on humor and death.

231—Special Studies in Religion (3)
Among topics taught at different times: Women, Sexuality, and the Western Religious Tradition; Mysticism East and West; Christian Ethics Today; Current Theological Issues.

271—Studies in Faith and Literature (3)
Study of relationships between Christian faith and literary art in the context of contemporary novels and plays.

281—The Religions of India (3)
Study of historical development and basic traditions of South Asian religions, especially Hinduism and Buddhism. Usually offered alternate years.

282—The Religions of China and Japan (3)
Study of historical development and basic traditions of East Asian religions, especially Buddhism, Confucianism, Taoism, Shintoism. Usually offered alternate years.

306—Early Christian Thought (3)
Theology of the early church with emphasis on the development of Trinitarian and Christological thought. Usually offered alternate years.

313—Modern European Theology (3)
Prerequisite: Either Religion 111, 117, 202, or 203. Persons and problems of 20th century theology from Barth to Moltmann, from liberal to liberation theology. Usually offered alternate years.

314—American Theology (3)
Prerequisite: Either Religion 111, 117, 202, or 203. Death of God, Secular, Black, Process and Play theologies are investigated; emphasis on present theological problems and possibilities. Usually offered alternate years.

331—Special Studies in Religion (3)
Among topics taught at different times: 19th Century Theology, Protestant Reformation.

341—Major Religious Thinkers (3)
Among thinkers studied in depth at different times: Augustine, Soren Kierkegaard, Elie Wiesel.

401—Guided Research (3)
Preparation of a senior paper under the direction of the religion faculty. Required of all senior majors.

491, 492—Individual Study (3 each)
Individual work under the guidance of the religion faculty. By permission of the religion faculty.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Russian

Department of Modern Foreign Languages; Mr. Bozicevic, Career Adviser

See *Modern Foreign Languages* for statement of departmental goals and program.

101-102—Beginning Russian (3, 3)
Fundamentals of spoken and written Russian.

201-202—Intermediate Russian (3, 3)
Prerequisite: Russian 101-102 or equivalent. Review, completion of fundamentals, and reading.

215—Russian Culture (3)
Survey of art, dance, folklore, geopolitics, institutions, literature, music, religion, screen, theatre. Conducted in English. Fall 1982.

291—Reading, Composition and Conversation (3)
Prerequisite: Russian 201-202 or equivalent. Fall 1982.

295—Russian Literature, XIX Century (3)
Literary masters from Pushkin to Chekhov. Fall 1983.

296—Russian Literature, XX Century (3)
Transition from old to new—from Gorky to Solzhenitsyn. Conducted in English. Spring 1984.

300—Phonetics, Morphology and Syntax (3)
Sounds and transcription, structure, simple and compound sentences. Fall 1983.

323—Readings in Scientific Russian (3)
Prerequisite: Russian 201-202 or equivalent. Texts and terminology in various disciplines. Spring 1983.

324—Readings in Commercial Russian (3)
Prerequisite: Russian 201-202 or equivalent. Composing and typing business letters; Russian trade techniques. Spring 1984.

397—Dostoevsky and Tolstoy (3)
Reading and analysis of representative works. Spring 1983.

481—Russian Studies Seminar
Interdisciplinary topics.

491, 492—Individual Study (3, 3)
Research on adviser-approved topic in language or literature. Not to duplicate any regular course.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Sociology

Department of Anthroplogy, Geography and Sociology; Mr. Sletten, Career Adviser.

The major program in sociology provides a strong grounding in the study of the development of sociological theory and methods of research, as well as in substantive areas dealing with important aspects of social life in the contemporary world. The substantive area courses focus on the study of the structure and dynamics of social life and relationships and on timely contemporary issues in such areas as the family, sex roles, religion, criminology, occupations and professions, juvenile delinquency, aging, race and ethnic relations, urban communities, health and population studies. Special readings and individual study and research offer students the possibility of working with faculty guidance in an area of special interest. Supervised internships are available in community agencies and organizations.

As a body of reliable knowledge based on the scientific investigation of human social interaction, sociology can provide students with insights into the nature of culture, social structure and social dynamics which are relevant to personal and intellectual development and social awareness. This program of study is designed to provide sociology majors with the necessary foundation for a variety of career goals and graduate work in sociology. In addition, it is aimed toward preparing majors as well as non-majors for government employment, elementary and secondary teaching, social services, research with public and private agencies including private industry and the allied health professions.

Requirements for the Major

In Major Subject: 101, 102, and Anthropology 101; 24 credits in Sociology courses at the 300 and 400 level; up to 6 credits of upper-level Anthropology may be substituted for Sociology courses.

In Other Subjects: 6 credits in approved selected courses in anthropology, psychology, history, political science, economics, linguistics, philosophy, statistics and computer science.

Recommended: Students are strongly urged to take Sociology 101 and/or 102 or Anthropology 101 *before* enrolling in any upper division course. Majors are encouraged to work closely with their departmental adviser to develop an integrated, balanced program of study.

101—Principles of Sociology (3)
Examination of basic social characteristics of group life including such concepts as status, role, social structure, social dynamics, power, culture and the interaction between persons and groups.

102—Social Problems (3)
Social problems resulting from deviant behavior, social disorganization, group conflicts and processes of social change.

303—Individual and Society (3)
Impact of culture, social structure, groups and social interaction on individual perspectives and behavior. Fall 1982.

304—Social Stratification (3)
Analysis of inequality in society. Nature and consequences of social stratification and power in modern society.

311—Demography and Human Ecology (3)
Basic principles of social and formal demography. Relationship of social, economic and psychological factors on demographic processes. Spring 1983.

312—Comparative Community (3)
Cross cultural comparisons of the nature and development of communities emphasizing the role of modernization, urbanization and political decision making on the social structure and dynamics of modern communities. Fall 1982.

313—Urban Sociology (3)
Common problems of city living, ecological factors in growth of cities and their influence upon social organization and every day social relationships.

314—Population Trends (3)
Intensive treatment of selected special topics in population studies. Fall 1982.

315—Sex Roles and Society (3)
Sociological study of sexual differentiation in American society, with an emphasis on major social institutions and social change.

331—The Family (3)
American families: changing patterns in marriage, divorce, and child-rearing; social class and ethnic variation; and emerging alternative live-styles.

332, 333—Introduction to Social Welfare (3, 3)
First semester foci: Social welfare concerns, historical backgrounds, philosophies, values, goals, and issues; and social welfare as a social institution. Second semester foci: social work as a profession; fields, methods, policies, and consequences of social action or inaction. 1983-84.

334—Medical Sociology (3)
The relationship of disease and health to social structure and culture. Organizational and role analysis of the medical care industry, various allied health professions and alternative approaches to coping with health and illness.

341—American Society (3)
Overview of contemporary society; modifications of the liberal progressive ideology and organization; changing male and female roles; growth of bureaucracy; work and leisure. Spring 1983.

342—Occupations and Social Structure (3)
Treatment of major occupational groups; special emphasis upon professions and executive roles, including relationships with other aspects of society. Spring 1984.

351—Juvenile Delinquency (3)
Sociological analysis of the nature, extent, causes, impact and treatment of juvenile delinquency.

352—Criminology (3)
Causal theories and descriptive research on adult crime; overview of the American criminal justice system.

362—Methods of Social Research (3)
Study design, observation, interviewing, questionnaire construction and administration, survey research and analysis, and other topics are treated in the course.

363—Sociological Research: Data Analysis (3)
Prerequisites: Sociology 101 and 362, and Statistics 200. Analysis of data from sample surveys, census materials. Use of secondary data to prepare research reports. Fall 1983.

402—Sociology of Human Development (3)
Examination of social influences on human development, including family, schools, mass media and social stratification. Fall 1983.

421—Ethnic and Racial Minority Relations (3)
Analysis of the relationship between ethnic and racial groups in America. Focus is on people of color and their relationship to white society. Concepts such as prejudice, discrimination, segregation, inter-group conflict and assimilation are discussed. Fall 1983.

422—Sociology of Religion (3)
Social factors in development and function of institutions in world religions; chief focus on Judeo-Christian tradition. Spring 1984.

431—Sociology of the Aging (3)
Theories of aging, societal attitudes; other factors: demographic, status change, family relationships, and institutionalization of aged persons.

442—Social Change (3)
Utilization of the knowledge of social change theories and processes for both large and small scale changes to analyse the consequences of contemporary change oriented movements in such areas as environmental protection, civil rights, health care, citizen participation, and workers' ownership. Spring 1984.

471—History of Social Theory (3)
Presentation and analysis of major forms and themes of social and early sociological theory from Greece to the 20th century.

472—Contemporary Sociological Theories (3)
Major sociological theorists of the 20th century including Durkheim, Weber, Pareto, Mannheim, Sorokin, and Parsons.

488—General Readings (3)
Usually one set of readings on some major concepts or points of view in contemporary sociology with an emphasis upon discussion.

489—Special Readings (3)
One or several sets of readings and discussions from a sociological point of view. Student interest is important in selection of the topics.

491, 492—Individual Study and Research (3, 3)
Available to qualified students. Reading and research; project or paper with guidance of a faculty member.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Spanish

Department of Modern Foreign Languages; Mrs. Quann, Career Adviser

See *Modern Foreign Languages* for statement of departmental goals and program.

Requirements for the Major

Option A (Spanish Language and Literature): 30 credits in Spanish courses beyond 201-202, including 291, 292, 321, 322, 451, 3 credits in Spanish American literature, 6 credits in peninsular or Spanish American literature and 391, 392.

Option B: 36 credits in Spanish and related courses beyond 201-202, including 291, 292, 293, 315, 316, 321, 322, 391, 392, 482, 3 credits in History 361 or 362 and 3 credits in Political Science 321 or 322 or Economics 401. (Students beginning their study at the 201 level will require special permission to exceed the 40 credit limit.)

101-102—Beginning Spanish (3, 3)
Grammar, composition, conversation, reading, laboratory use.

201-202—Intermediate Spanish (3, 3)
Grammar review, reading, oral work, laboratory use.

291, 292—Studies in Language I (3, 3)
Grammar, composition, conversation.

293—Spanish for Professional Use (3)
Prerequisites: Spanish 291, 292. Study of specialized vocabularies and their applications to various professions. Spring 1983.

315—Spanish Civilization (3)
Geography, history, and the social, political and cultural background of Spain and the Spanish people. Fall 1982.

316—Spanish American Civilization (3)
Geography, history and the social, political and cultural background of Spanish America and the Spanish American people. Fall 1983.

321, 322—Introduction to Spanish Literature (3, 3)
History and study of examples of Spanish literature from Middle Ages to present day.

325—Poetry of Spain (3)
Prerequisites: Spanish 321, 322. Poetry from the 11th century to the contemporary period. Not offered 1982-84.

351—Drama of the Golden Age (3)
Prerequisites: Spanish 321, 322. Lope de Vega, Tirso de Molina, Calderón and other representative works. Fall 1983.

372—Nineteenth Century Novel (3)
Prerequisites: Spanish 321, 322. Pardo Bazán, Alas, Perez Galdós and other representative authors. Spring 1984.

376—Spanish American Literature: Modernism (3)
Prerequisites: Spanish 321, 322. Poetry and prose of "modernismo", 1888 through the period of World War I. Fall 1982.

377—Spanish American Post-Modernists Poetry (3)
Prerequisites: Spanish 321, 322. Gabriela Mistral, Pablo Neruda, Borges, Octavio Paz and other representative poets. Fall 1983.

381—The Generation of '98 (3)
Prerequisites: Spanish 321, 322. Unamuno, Baroja, Ortega y Gasset and others. Fall 1982.

382—Twentieth Century Drama (3)
Prerequisites: Spanish 321, 322. Benavente, García Lorca, Casona, Buero Vallejo and others. Not offered 1982-84.

383—Contemporary Spanish Prose (3)
Prerequisites: Spanish 321, 322. Emphasis on post-Civil War authors. Not offered 1982-84.

385, 386—Twentieth Century Spanish American Literature (3, 3)
Prerequisites: Spanish 321, 322. Novel, poetry, drama, 1900 to present. Spring 1983.

391, 392—Studies in Language II (3, 3)
Prerequisites: Spanish 291, 292. Advanced grammar, composition, conversation. Required of majors.

451—Intensive Study of Cervantes (3)
Prerequisites: Spanish 321, 322. Principal emphasis on *Don Quijote*. Required of majors. Spring 1984.

481—Spanish Seminar (3)
Prerequisites: Spanish 321, 322. Selected topics from peninsular literature. Spring 1983.

482—Spanish American Seminar (3)
Prerequisites: Spanish 321-322. Selected topics. Spring 1984.

491, 492—Individual Study (3, 3)
Intensive study of one or more authors selected by student in consultation with adviser. By permission of the Department.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Speech

Department of English, Linguistics, and Speech.

The objectives of the courses in Speech are to enhance student skills in oral communication through theory and practice in reading and speaking; to increase student understanding of the structure of the spoken language; and to provide students with a basic knowledge of the anatomy and physiology underlying the speech mechanism.

In addition to the specific pre-professional education afforded by the cooperative program, the Department provides students with the opportunity to increase their personal effectiveness in oral communication, an integral component of most vocations of the professional and supervisory level.

261—Voice and Diction (3)
Theory and practice of principles necessary to speech improvement. Individual analysis is offered to improve the student's voice, articulation, and pronunciation.

300—Organizational Communication (3)
A study of communication theory as it operates inside business and professional structures; an investigation of interpersonal, dyadic, small-group, and public communication.

301—Group Discussion (3)
Philosophy and practice of group discussion as a means of problem-solving and the exercise of group leadership. 1983-84.

302—Public Speaking (3)
A study of the art of public speaking; the composition, organization and delivery of speeches of various types. 1983-84.

331—**Oral Interpretation** (3)
Prerequisite: English 233. Interpretation of prose, poetry and dramatic literature in terms of its intellectual, emotional and aesthetic content.

361—Voice Science (3)
A study of the anatomical, physiological and neurological functioning of the speech and hearing mechanisms. Fall 1982.

362—Phonetics (3)
A study of American dialects and standards of speech employing the International Phonetic Alphabet. Spring 1983.

491, 492—Individual Study (3, 3)
Individual study under the direction of a member of the staff. By permission of the Department.

499—Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Speech Pathology and Audiology

Department of English, Linguistics, and Speech; Mr. Duke, Career Adviser

A major program in speech pathology and audiology is offered in cooperation with the University of Virginia. Students complete three years at Mary Washington College, spend the senior year in residence at the University of Virginia, and receive their degrees from Mary Washington College. Full details on this program are available from the Chairperson.

Requirements for the Major

At Mary Washington College: Speech 361, 362 and two of the following: 261, 300, 301, 302, 331.

At University of Virginia: 30 credit hours of which at least 24 must be in the major field.

Recommended: Psychology 311, 331, 362 and Linguistics courses.

Statistics

Department of Mathematical Sciences and Physics

The Department of Mathematical Sciences and Physics offers a variety of courses in statistics which provide a rational basis for inferential reasoning and emphasize the ability to reason statistically. They lay the groundwork for understanding institutional decision-making processes, quality of information, and effective use of common statistical tools.

Many students take statistics courses to strengthen understanding of the quantitative aspects of other disciplines. These courses also help to broaden career opportunities.

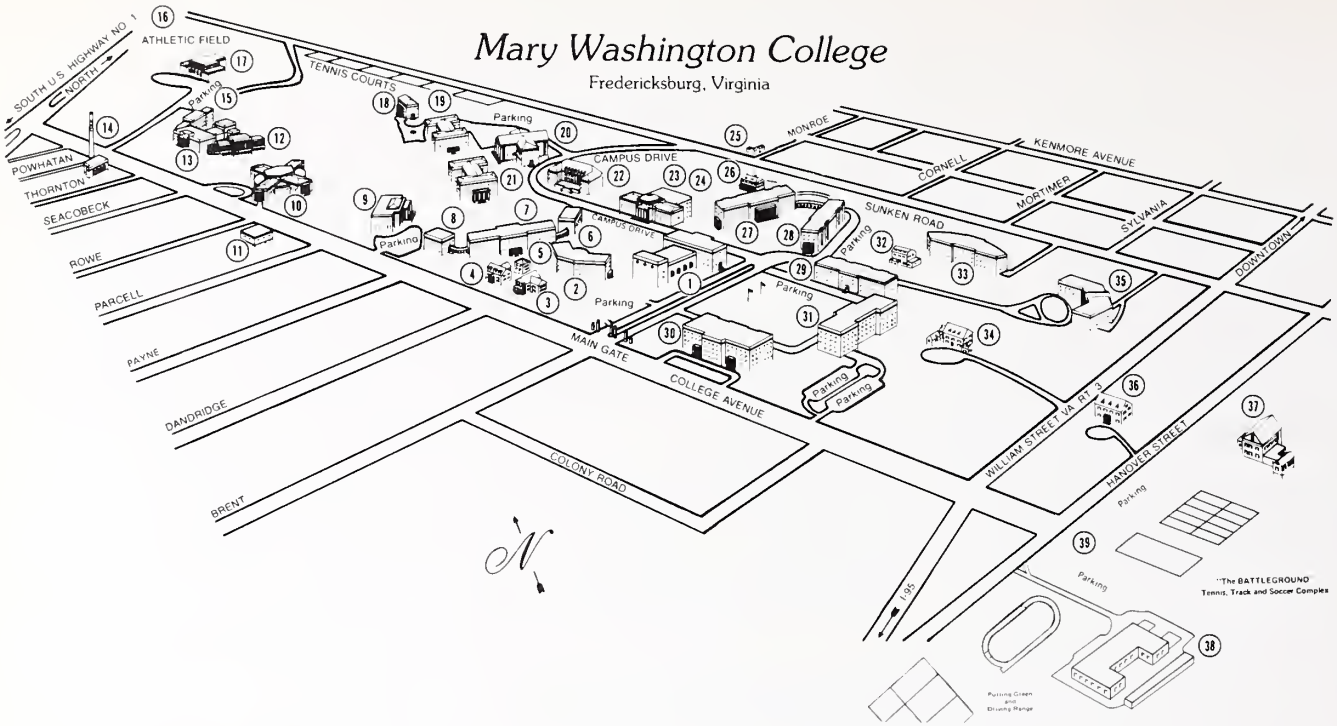
100—Survey of Statistics (3)
Survey of statistical reasoning and its application intended for non-scientists. Application of statistics are illustrated using case histories from diverse fields.

200—Introduction to Statistics (3)
First course in statistical methods. Both parametric and nonparametric techniques. Examples from diverse fields.

321—Introduction to Mathematical Statistics (3)
Prerequisites: Mathematics 221 and Computer Science 221. A calculus based mathematical statistics course with special emphasis on applications in computer science.

401, 402—Introduction to Probability and Statistical Inference (3, 3)
Prerequisite: Mathematics 231. Careful introduction to probability theory and theoretical statistics including both classical and Bayesian approaches to estimation and testing problems.

420—Readings in Experimental Statistics (3)
Prerequisite: Permission of the instructor. General linear models, experimental design and analysis, other topics as required.



1 GEORGE WASHINGTON HALL
Administration Hall

2 WESTMORELAND HALL
Residence Hall

3 HAMLET
Residence Hall

4 FAIRFAX
Residence Hall

5 TYLER
Residence Hall

6 MADISON HALL
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16 ATHLETIC FIELDS

17 GOOLRICK HALL
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18 MERCER HALL
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Residence Hall

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21 VIRGINIA HALL
Residence Hall

22 LEE HALL
Student Activities

23 TRINKLE LIBRARY

24 AMPHITHEATER

25 CENTER FOR HISTORIC PRESERVATION

26 MARYE
Residence Hall

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30 COMBS HALL
Academic Hall

31 JEFFERSON HALL
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32 BRENT
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33 RUSSELL HALL
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Residence Hall

35 MARSHALL HALL
Residence Hall

36 TRENCH HILL
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37 BROMPTON
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38 PHYSICAL PLANT BUILDING
Maintenance

39 THE BATTLEGROUND-ATHLETIC
COMPLEX

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Calendar

1982-1983

First Semester 1982

Saturday	August 28	Residence halls open at 9 a.m. for new freshmen and transfer students. Student Association Orientation for all new students begins at 7 p.m.
Sunday	August 29	Residence halls open at 9 a.m. for returning students
Sunday	August 29	Registration for late admissions, unregistered returning students, part-time and special students from 3-5 p.m.
Monday	August 30	Classes begin
Fri.-Sat.	September 24-25	Family Weekend
Friday	October 22	Mid-semester vacation begins at 5 p.m. Residence halls close at 7 p.m.
Wednesday	October 27	Mid-semester vacation ends at 8 a.m. Residence halls open at 1 p.m., Tuesday, October 26
	November 8-19	Registration for second semester
Wednesday	November 24	Thanksgiving holiday begins at 12:05 p.m. Residence halls close at 2 p.m.
Monday	November 29	Thanksgiving holiday ends at 8 a.m. Residence halls open at 1 p.m., Sunday, November 28
Fri.-Sat.	December 10-11	Reading days
Mon.-Sat.	December 13-18	Examinations
Saturday	December 18	Residence halls close at 7 p.m.

Second Semester 1983

Sunday	January 16	Residence halls open at 9 a.m.
Sunday	January 16	New student advising and registration 2-5 p.m.
Monday	January 17	Classes begin
Monday	March 14	Founders Day
Friday	March 18	Spring vacation begins at 5 p.m. Residence halls close at 7 p.m.
Monday	March 28	Classes resume at 8 a.m. Residence halls open at 1 p.m., Sunday, March 27
	April 11-22	Registration for the first semester of 1983-84
Fri.-Sat.	April 29-30	Reading Days
Mon.-Sat.	May 2-7	Examinations
Saturday	May 7	Residence halls close at 7 p.m. for students who are not candidates for graduation
Saturday	May 14	Graduation. Residence halls close at 5 p.m.

Summer Session 1983

Term	Registration (4-7 p.m.)	Classes Begin	Examinations
Three-Week	Monday, May 16	Tuesday, May 17	Friday, June 3
First Four-Week	Monday, June 6	Tuesday, June 7	Friday, July 1
Second Four-Week	Tuesday, July 5	Wednesday, July 6	Friday, July 29

1983-1984

First Semester 1983

Saturday	August 27	Residence halls open at 9 a.m. for new freshmen and transfer students. Student Association Orientation for all new students begins at 7 p.m.
Sunday	August 28	Residence halls open at 9 a.m. for returning students
Sunday	August 28	Registration for late admissions, unregistered returning students, part-time and special students from 3-5 p.m.
Monday	August 29	Classes begin
Fri.-Sat.	September 23-24	Family Weekend
Friday	October 21	Mid-semester vacation begins at 5 p.m. Residence halls close at 7 p.m.
Wednesday	October 26	Mid-semester vacation ends at 8 a.m. Residence halls open at 1 p.m., Tuesday, October 25
	November 7-18	Registration for second semester
Wednesday	November 23	Thanksgiving holiday begins at 12:05 p.m. Residence halls close at 2 p.m.
Monday	November 28	Thanksgiving holiday ends at 8 a.m. Residence halls open at 1 p.m., Sunday, November 27
Fri.-Sat.	December 9-10	Reading days
Mon.-Sat.	December 12-17	Examinations
Saturday	December 17	Residence halls close at 7 p.m.

Second Semester 1984

Sunday	January 15	Residence halls open at 9 a.m.
Sunday	January 15	New student advising and registration 2-5 p.m.
Monday	January 16	Classes begin
Wednesday	March 14	Founders Day
Friday	March 16	Spring vacation begins at 5 p.m. Residence halls close at 7 p.m.
Monday	March 26	Classes resume at 8 a.m. Residence halls open at 1 p.m., Sunday, March 25
	April 9-20	Registration for the first semester of 1984-85
Fri.-Sat.	April 27-28	Reading Days
Mon.-Sat.	April 30-May 5	Examinations
Saturday	May 5	Residence halls close at 7 p.m. for students who are not candidates for graduation
Saturday	May 12	Graduation. Residence halls close at 5 p.m.

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Mary Washington College is accredited by the Southern Association of Colleges and Schools.

The College is a member of:
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The Southern University Conference
The American Council on Education
The Association of State Colleges and Universities
The Association of Virginia Colleges
The College Entrance Examination Board
The National Association of Schools of Music

Honorary academic organizations with chapters on campus include:
Phi Beta Kappa (academic achievement)
Mortarboard (leadership, scholarship and service)
Chi Beta Phi (achievement in the sciences)

Women graduates are eligible for membership in the American Association of University Women

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